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1856/57

SIXTY-SECOND

ANNUAL

CIRCULAR AND CATALOGUE

OF

UNION COLLEGE.

THIRD TERM, 1857.

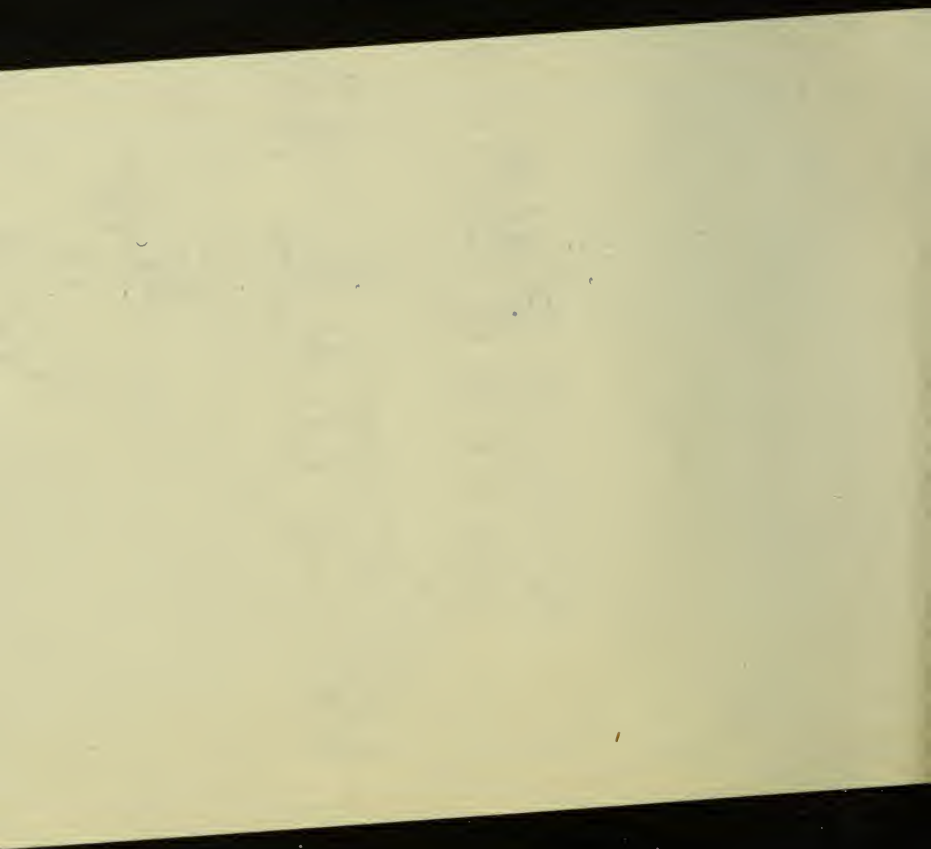
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ANNUAL

Edw.

Union College, Sixty-Second annual Circular and
Catalogue of, third term, 1857. 8vo, wr.
Schenectady 1857.

SCHENECTADY :
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CALENDAR—1857-8.

COMMENCEMENT.....Wednesday, July 22, 1857.

First Term begins.....Friday, Sept. 4, 1857.

“ ends.....“ Nov. 27, 1857.

Second Term begins.....“ Jan. 8, 1858.

“ ends.....“ April 2, 1858.

Third Term begins.....“ “ 23, 1858.

“ ends.....“ July 16, 1858.

COMMENCEMENT.....Wednesday, July 28, 1858.

INFORMATION.

I. COURSES OF STUDY.

There are three courses of study established in the institution—the Literary, the Scientific, and the University or Partial course. A three years' course for graduates is also in process of arrangement, for such as shall be deemed suitable to receive its advantages.

The Literary course is the usual Baccalaureate course of the College, and remains unchanged, and the degrees conferred remain the same as is usual in American colleges.

In the Scientific course the modern languages are substituted in place of the ancient languages, and the amount of mathematical studies is increased. The degrees conferred remain unchanged ; but the diploma given is in French.

In the University course students select such branches of study as they please, and receive a certificate indicating the particular studies they have pursued. This is in English.

There are also special courses of instruction in Civil Engineering and in Analytical Chemistry.

II. REQUIREMENTS FOR ADMISSION.

Candidates for admission must present testimonials of good moral character, and if from another college, a letter of honorable dismission or of special request.

Candidates for the Freshman Class, in the *Classical* course, must be *thoroughly* prepared in English Grammar ; Arithmetic (Davies' "University," or its equivalent ;) Andrews & Stoddard's Latin Grammar ; Cæsar's Commentaries, four books ; Virgil's *Æneid*, six books, with the rules of Hexameter Verse ; four Orations of Cicero ; Sallust's *Cataline* ; Bullions' Greek Grammar and Greek Reader. The whole, or a full equivalent, in both quantity and quality, will be strictly

required. It is desirable that those intending to pursue the Classical course should enter at the commencement of the Freshman year.*

Candidates for the *Scientific* course are permitted to prosecute the studies of the Freshman year with any competent teacher; and will be examined for admission to the Sophomore year on English Grammar, Practical Arithmetic (Davies' "University,") Algebra (to n th root,) Geometry (five books,) and United States History.

Candidates for any other class will also be examined in all the studies previously pursued by said class, as shown in the following course of studies.

It is very important that candidates should be thoroughly prepared especially in grammatical and elementary knowledge. Where they have more time than is requisite for such preparation, it is desirable, for obvious reasons, that they should not anticipate studies in the College course, but apply themselves to other studies.

Students from other colleges cannot enter later than the beginning of the third term of the Senior year.

Examinations for admission take place in presence of three officers. The regular times for such examinations are the last two days of the week preceding Commencement, and the last two days of each vacation, viz. Thursday and Friday, at 10 o'clock A. M.

Students not candidates for a degree are examined only sufficiently to test their qualifications to pursue with advantage the course of study which they have in view.

III. DEPARTMENTS OF INSTRUCTION.

1. THE GREEK LANGUAGE AND LITERATURE.

The course of instruction in this department extends regularly through the whole of the Freshman and Sophomore years, together with the first and third term of the Junior. In the Senior, one term is devoted to it as a regular study, and in another, some Greek author is read as a voluntary exercise, should time and circumstances permit. Lectures form the greater part of the instruction in the latter part of the course. There is a gradation of aims. The Freshman

* Teachers preparing students to enter College, are requested to notice that the above requirements for admission are more precisely specified than heretofore, and, having been reduced to the minimum quantity, a full compliance with them will hereafter be expected.

year is employed almost wholly in thorough grammatical drilling. In the Sophomore year the chief object is correct and elegant translation, in which much attention is paid to what may be called the laws of correct expression, or the transfer of idiom into idiom. A constant demand is, the best English for the best Greek. Thus progress is made in the knowledge of the capacities of our own tongue, whilst the power of the ancient language is shown in a way which could never have been exhibited in the un-english verbal renderings that are so commonly permitted. In the Junior year, the same object is pursued, but more attention is given to the philosophy or poetry of the classic author, as a matter of general criticism. In the time that can be devoted to Greek in the Senior year the latter aim is wholly predominant.

By steadily pursuing this course, there is found to be a manifest improvement in each succeeding class. The standard of preparation is gradually raised, the valuable educational influence of the classics is secured for the greater number, whilst great pains are taken, especially in the latter part of the course, to arouse the enthusiasm of that smaller portion who may be expected to make the ancient languages and literature their devoted study in after life.

The reading of the Freshman year is confined mainly to Xenophon, Demosthenes, and Homer. The Sophomore year and part of the Junior, are found, from good experience, to be most profitably occupied with the Greek Dramatic Poetry, whilst in the remainder of the course the Greek philosophy is made the chief object of attention. One idea is never lost sight of. It is, the bearing of the ancient philosophy, poetry, and mythology, upon Revelation and the Christian theology. Especially in the Junior and Senior years, is this made a prominent thought, presented not only in lectures, but in constantly calling attention to every thing by which it may be legitimately suggested.

The course of reading is frequently varied from that which is formally presented in the Catalogue, although the same general amount is required and the same general plan is pursued. As the instruction is in a high degree oral, bare text-books are preferred to editions with notes, although no objection is made to such helps when they can be obtained.

2. LATIN LANGUAGE AND LITERATURE.

The studies of this department embrace a select series of the Latin classics, accompanied by miscellaneous exercises extending through the Freshman and Sophomore years, and one term of the Junior year, and arranged as follows :

FRESHMAN YEAR.

First Term.—Livy ; Arnold's Latin Prose Composition.

Second Term.—Horace, Select Odes ; Latin Prosody.

Third Term.—Cicero de Officiis ; Arnold's Latin Prose Composition.

SOPHOMORE YEAR.

First Term.—Tacitus, Annals or Germania and Agricola ; Arnold's Latin Prose Composition, 2d Part.

Second Term.—Juvenal and Terence ; Essays on Roman Manners and Customs.

Third Term.—Horace, Select Satires and Epistles ; Ramshorn's Latin Synonyms.

JUNIOR YEAR.

Second Term.—Cicero, Tusculan Questions ; Critical Study of Latin Particles and Subjunctive Mood.

Lectures, on Ancient Philosophy, Roman History and Roman Literature, adapted to the students' stage of advancement, will be occasionally delivered by the Professor.

As books for reading and reference, Zumpt's and Andrews & Stoddard's Latin Grammars ; Schmitz's and Arnold's Histories of Rome ; Smith's Dictionary of Greek and Roman Antiquities ; Anthon's Classical Dictionary, and Findlay's Classical Atlas, or their equivalents, are deemed indispensable.

Discipline of mind, formation of correct habits of thought, cultivation of literary taste, and, incidentally, promotion of general knowledge, the chief objects of all departments of collegiate education, are those also sought to be attained by this arrangement of the Latin course.

3. MODERN LANGUAGES.

The course of instruction in the modern languages includes oral and written examinations and translations, accompanied with conversation on the subjects read, in order to fix in the memory colloquial phrases, and followed by lectures on the respective literatures.

The course is thus divided :

The German Language is taught as a regular daily study of the Scientific course three successive terms, beginning with the First Term Junior. The text-books used are : Peissner's Grammar, with exercises and reading lessons ; and his Historical Sketch and Manual of German Literature.

The French Language is taught as a regular daily study of the Scientific course two successive terms, beginning with the First Term Sophomore. The text-books used are : Longfellow's Grammar, and Chapsal's *Literature Française*. - An extra class (advanced) may be formed in the term following, in which appropriate instruction in the language and literature will be continued ; *Corneille*, *Racine* and *Moliere*, or other classics, being used as text-books.

The Spanish Language is taught as a voluntary study in the Second Term Senior. The text-books used are : Schele de Vere's Grammar and Velasquez's Reader. An extra advanced class may pursue this study another term. *Seleccion de Obras Dramaticas*, by Sales, being used as a text-book.

The Italian Language is taught as a voluntary study the Third Term Sophomore. The text-books are : Monti's Grammar and Foresti's Reader. An extra advanced class may pursue the study of Italian another term ; Extracts from *Dante*, *Petrarca*, and other classics, being used instead of a text-book.

Lectures on the Modern Literature of these languages occupy a part of the above recitations, and of the third term of the Senior Class. Others are given on the points of resemblance and of distinction between the Italian, Spanish and French languages, and their common basis, the Latin.

The hours for the recitations in the modern languages are so arranged that they may be taken by regular classical students.

4. MATHEMATICS AND ASTRONOMY.

The studies of this department are arranged as follows :

FRESHMAN YEAR.

First Term.—Algebra, to square root.—(Bourdon.)

Second Term.—Algebra, to *n*th root.—(Bourdon.)

Third Term.—Geometry—Plane ; five books.—(Legendre.)

SOPHOMORE YEAR.

First Term.—Geometry—Solid ; four books.—(Legendre.)

Second Term.—Algebra, completed.—(Bourdon.)

Third Term.—Trigonometry—Plane and Spherical.—(Legendre.)
Descriptive Geometry.—(Monge.)

JUNIOR YEAR.

First Term.—Conic Sections.—(Jackson.)

Analytical Geometry.—(Davies.)

Second Term.—Differential and Integral Calculus.—(Davies.)

Third Term.—Analytical Mechanics.—(Boucharlat.)

A thorough and familiar knowledge of practical Arithmetic is required from those desiring to commence the course. Those entering later than the First Term Freshman; must have well mastered the subjects which have been taught to the class which they desire to join.

5. CIVIL ENGINEERING.

This department was founded in 1845. Its object is to give its students such instruction in the theory and practice of Civil Engineering, as to qualify them for immediate usefulness in the field and office in a subordinate capacity, and at the same time to fit them to fill satisfactorily the higher positions in the profession after a moderate amount of experience in the routine of practice. The course of instruction aims to effect this by constant exercise in mechanical draughting, instrumental fieldwork and numerical calculation, combined with the study of textbooks, and lectures on the numerous subjects where books are wanting. Its facilities have recently been greatly increased by the acquisition of numerous models and instruments from the best European sources.*

The Civil Engineering course can be taken by persons wishing to pursue it specially, by their entering as "University students," taking such collateral regular College studies as may be desirable. It is completed in two years, beginning with the Summer term, or College "Third term," about May 1st, and ending the last week in March, in time for its students to join parties then beginning the fieldwork of the season. The fees, are for the present, the same as those of the ordinary College course.

* Among them are these: a complete set (fifty) of the beautiful *Olinier* models of Descriptive Geometry, showing the generations, transformations and intersections of "Rule-surfaces"; the best Stone-cutting models (twenty) of *L'Ecole Polytechnique*; The Topographical models of M. Bardin; Mr. Doyne's dynamometer Bridge-strain model; the levels of Egault, Troughton, &c.

For commencing the Civil Engineering course, the requirements are Arithmetic, Algebra, Geometry (plane and solid), and the execution of the first seventy problems of Mahan's "Industrial Drawing." These are taught, with additions, in the Sophomore Second Term. Readiness in the common operations of Arithmetic, particularly mental calculation, and perfect familiarity with the elements of Algebra and Geometry, are indispensable preliminaries for commencing the course with advantage. Any portion of the course may be taken separately by those qualified to pursue it profitably.

The subjects of the course are arranged in the order given below, so as to harmonize them with the terms of College, and the seasons of the year, suitable to Field-work, or otherwise. The course is also so arranged and subdivided, that the more popular topics and the more specially technical ones come at different times; so that those students who desire merely a general knowledge of Civil Engineering as a part of a liberal education, and those who wish to study it professionally, can each be suitably accommodated. The instruction is also given at different hours from those of the regular recitations, so as to prevent any interference, and to enable its special students to pursue collaterally such of the regular studies as they are found to require.

FIRST YEAR.

Summer Term.—LAND SURVEYING; with field work, plats and calculations.

DESCRIPTIVE GEOMETRY; with Graphical Problems.

TRIGONOMETRY; Plane and Spherical.

Fall Term.—LEVELLING; with application to Topography, &c.

DRAUGHTING; by Plans, Elevations and Sections.

ANALYTICAL GEOMETRY.

Winter Term.—DRAUGHTING; by Oblique Projections and Perspective; Shades and Shadows; Colors.

MENSURATION of Engineering Structures, &c.

STATICS AND DYNAMICS.

DIFFERENTIAL AND INTEGRAL CALCULUS.

SECOND YEAR.

Summer Term.—HIGHER SURVEYING; with Transit, Theodolite, Sextant, &c.

ENGINEERING STATICS; the stability of structures, and the strength of their materials.

DRAUGHTING, continued.

HYDROSTATICS, Hydrodynamics, Pneumatics, Heat, and Steam.

ANALYTICAL MECHANICS.

Fall Term.—ROAD ENGINEERING; the principle of the location and construction of common Roads and Railroads; with field practice in Curves, Grades and Cross Sections; Calculation of Excavation and Embank't, &c. ENGINEERING STATICS; continued.

STEREOTOMY; Applications of Descriptive Geometry to Stone-cutting, &c.

Winter Term—GENERAL CONSTRUCTION; Materials, Foundations, Masonry, Carpentry, &c.

BRIDGE ENGINEERING; Plans and Calculations of the Forms and Dimension of Bridges of Wood, Iron, and Stone.

WATER ENGINEERING; Canals, Water Supply, Drainage, River and Sea Coast Improvements, &c.

Supplementary Lectures on Geodesy and Practical Astronomy, Higher Descriptive Geometry, and Architecture, are given in the following Summer Term to the students who may still be resident.

The recent extension of this course demands so much time and study from those who take it, that students of the complete College "Scientific Course" cannot pursue both at the same time. They can, however, with extra labor, combine the two by making them "overlap," distributing the extra studies of the first four terms of the above course over the last seven terms of the regular course, and then completing this course in two terms after graduating. Their extra studies would then be taken in this order: *Sophomore 3d term*, Descriptive Geometry; *Junior 1st term*, Draughting; *Jun. 2d term*, The Calculus and Draughting; *Jun. 3d term*, Analytical Mechanics and Draughting; *Senior 1st term*, Levelling; *Sen. 2d term*, Engineering Mensuration; *Sen. 3d term*, Higher Surveying and Engineering Statics; and, in the two terms after graduating, the subjects noted in the last two terms above.

Students of only the special Engineering Course are earnestly advised, if their bodily and mental strength will permit, to combine with it the modern languages and the physical sciences of the Regular Course. But if their time will allow, the best plan is to enter as "Scientific students," and pursue the complete course indicated in the preceding paragraph.

At the beginning of the last term of the course, students who are candidates for a diploma are required to undergo a written examination on the leading points of all their preceding studies. Those who pass it satisfactorily receive a diploma of "Graduate in Civil Engineering," and it is intended that this diploma shall be a guarantee of more than average ability and industry. The others receive certificates proportioned to what they have done.

6. NATURAL PHILOSOPHY.

The instruction in this department extends through three terms, commencing with the second term of the Junior year. Students, both of the Classical and Scientific courses, and those in the Engineering department, recite in two divisions, one hour being given to each, five days in the week, and the subjects succeeding each other in the following order :

JUNIOR YEAR.

Second Term.—Statics and Dynamics.—(Jackson.)

Third Term.—Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam.—(Jackson.)

SENIOR YEAR.

First Term.—Optics.—(Jackson.)

Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism.—(Foster.)

To secure at once precision and fulness, the instruction is mainly given from recently prepared text books. Frequent lectures are however delivered, either to furnish illustration and proof of principles by experiment, or to amplify particular subjects. Thus, after the completion of Statics and Dynamics, several lectures are devoted to mechanical "work," in order that not only the construction and theory, but modes of determining the *efficiency* of the various hydraulic and pneumatic machines may be understood. All lectures are required to be

written out by the students in full from the notes, and submitted for inspection. Numerous problems are also given on all the subjects, and are mostly so constructed that the calculated results may be verified by experiments before the class. Both to test the accuracy and to give ready command of the knowledge gained, several written examinations are required in each term, usually near its close.

A class of those wishing further knowledge of Mechanism and of Mechanical Work, read (in the original) the *Mécanique Appliquée* of Sonnet. To learn the application of the Differential and Integral Calculus to Mechanics, the students of the Scientific and Engineering courses recite daily during the Third Term Senior, select portions of Boucharlat's Mechanics.

In most of the branches included in this department the apparatus is sufficient for very complete experimental illustration.

7. CHEMISTRY.

In the *Undergraduates'* department, instruction in Chemistry will be embraced in a course of lectures, fully illustrated by experiments, and attended with thorough reviews and examinations. More advanced students will be permitted to enter the Analytical laboratory, upon payment of a fee proportionate to the time which they devote to the study. An accurate record of the attendance and proficiency of such students will be kept and reported to the Registrar.

The Analytical Laboratory is furnished with the best modern appliances for acquiring a thorough knowledge of Chemistry, and the application of this science to Agriculture and the Arts.

It will be open to its special students every week day, except Saturdays, from 9 A. M. to 5 P. M., at a charge of \$4 a week,—a reasonable deduction being made in favor of those who can devote only a portion of their time to this study. The cost of the apparatus which each student will be required to purchase, need not exceed \$10. Students can enter at any period, but they are advised to commence at the beginning of the College terms.

Previous study of Chemistry is highly advisable, but not essential to admission.

The plan of study depends upon the object of the student, his previous knowledge, and the time at his disposal. It is designed, how-

ever, to give a complete professional education in Chemistry to such as may desire it. Students in this department have access to the College Library and to the Mineralogical and Geological Collections.

The lectures to the Undergraduates are given in the Second Term of the Senior year.

In the Analytical department the following works are used as text books and for reference: Will's Qualitative Analysis; Fresenius' Analytical Chemistry; Berzelius on the Blowpipe; Elderhorst's Manual of Blowpipe Analysis; Wöhler's Handbook of Inorganic Analysis; Regnault's Elements of Chemistry; Gmelin's Handbook of Chemistry.

8. RHETORIC AND CRITICISM.

In this department there is a daily recitation during the Third Term Sophomore and First Term Junior. One day in each week is devoted to the delivery of original declamations. At each recitation two or more essays are required to be read. Considerable attention is given to the practical application of the rules taught in this department, and the students are frequently exercised in the correction of passages which violate the principles of their daily study. Lectures on various subjects connected with this department are also delivered to the class during the term.

In the First and Second Terms of the Senior year, Kames' "Elements of Criticism" is made the basis of Lectures by the President. His Lectures are continued in the Third Term Senior.

9. POLITICAL ECONOMY.

A course of *Lectures* on this subject are delivered in the Second Term of the Junior year. They are arranged as follows: Definition and Method; Geographical and Ethnographical Review of the Earth; its distribution among Tribes and Nations, with the origin of National and Private Property; Historical Sketch of Civilization; Elements of Society; Departments of Human Labor, including Government, School and Church; Development of Money (metal and paper); Value and Price of Labor and Products; Capital and Land; Taxation; Harmony between the different departments of Labor, with its obstructions in different nations; Population and Production; Historical Sketch of Modern Industry; Present State of Nations.

10. MENTAL AND MORAL SCIENCE.

The order of instruction pursued in these studies is given in the text-books used ; but while following the method given, a wide margin is filled in by Lectures, and oral comments, explanations and illustrations. The end determined to be secured is a systematic and not merely elementary or fragmentary apprehension of the subjects in hand. Each part has its relation to a whole, and its connections and place in the whole are necessary to be apprehended in order to any adequate knowledge of the fact itself. The student is not only examined from the text-book, but leading questions are put, as the lesson proceeds, designed to bring out his own powers, and waken individual thought and independent reflection. The class are all required to write on themes furnished in the order of the course, and are given out by the teacher to separate divisions successively. It is made the design of the composition to secure correct and clear thought, expressed distinctly and definitely, and to keep the attention precisely to the point while giving completeness to the whole discussion, with less regard here to rhetorical embellishment. Other authors are referred to as desirable for the student to read as opportunity may be afforded, and the attention is directed to such as treat on the same or collateral topics. Different views and theories are noticed and examined as the course proceeds, and as completely as may be the whole ground of investigation, on the topic in hand, is laid open before the class. The constant aim is to cultivate the habit of manly and independent though careful and patient reflection.

MENTAL PHILOSOPHY (Hickok's) is commenced in the Third Term of the Junior year, and concluded in the First Term Senior. MORAL PHILOSOPHY (Hickok's) is commenced in the same term and concluded in the next.

A synoptical view of the preceding departments of instruction will be found on the four following pages.

COURSE OF STUDIES.

CLASSICAL COURSE.

FRESHMAN CLASS.

FIRST TERM.

- Livy,—Three Books, ... *Lincoln.*
Xenophon's Anabasis,—Two Books, ... *Owen.*
Algebra, (to square root,) *Bourdon.*

SECOND TERM.

- Horace,—Three Books of Odes, Prosody, ... *Lincoln.*
Xenophon,—Memorabilia.
Algebra, (to n th root,) *Bourdon.*

THIRD TERM.

- Cicero de Officiis,—Two Books, ... *Thatcher.*
Homer—Iliad,—Four Books, ... *Owen.*
Geometry—Plane,—Five Books, ... *Legendre.*
Throughout Freshman year, Exercises in Latin and Greek Composition, ... *Arnold.*

SOPHOMORE CLASS.

FIRST TERM.

- Tacitus—History,—Two Books; or, Germania and Agricola.
Homer—Odyssey,—Six Books, ... *Owen.*
Geometry—Solid,—Four Books, ... *Legendre.*

SECOND TERM.

- Juvenal, (1st, 3d and 10th,) and Terence, (one.)
Euripides,—One or Two Dramas.
Algebra, (completed,) *Bourdon.*

THIRD TERM.

- Rhetoric, Composition and Declamation, ... *Blair.*
Euripides,—One or Two Dramas.
Trigonometry,—Plane and Spherical, ... *Legendre.*
Horace—Satires and Epistles.—(Voluntary.)

Throughout Sophomore year, Exercises in translating Greek into Latin.

COURSE OF STUDIES.

SCIENTIFIC COURSE.

Candidates for the regular Scientific Course are permitted to prosecute the studies of the Freshman year with any desirable Teacher, and for admission to the Sophomore year will be examined on English Grammar, Practical Arithmetic, (Davies' "University,") Algebra—to n th root, Geometry—five books, and United States' History.

SOPHOMORE CLASS.

FIRST TERM.

French, (Grammar,)	<i>Longfellow.</i>
History, ...	<i>Guizot.</i>
Geometry—Solid,—Four Books, ...	<i>Legendre.</i>

SECOND TERM.

French, (Reader,)	<i>Chapsal.</i>
Geometrical Draughting, ...	<i>Mahan.</i>
Algebra, (completed,)	<i>Bourdon.</i>

THIRD TERM.

Rhetoric, Composition and Declamation, ...	<i>Blair.</i>
Land Surveying, ...	<i>Gillespie.</i>
Trigonometry,—Plane and Spherical, ...	<i>Legendre.</i>
Descriptive Geometry.—(Voluntary,)	<i>Monge.</i>
French,—(Voluntary,)	<i>Moliere or Racine.</i>
Italian—(Voluntary,)	<i>Monti.</i>
Botany—(Voluntary,)	<i>Wood.</i>

CLASSICAL COURSE.

JUNIOR CLASS.

FIRST TERM.

Sophocles,—Two Dramas.

Rhetoric, Composition and Declamation, (continued,)

Conic Sections, *Jackson* ; or, Analytical Geometry,..... *Davies*.

SECOND TERM.

Political Economy.—*Lectures*.

Cicero—Tusculans,—Three Books.

Statics and Dynamics, ... *Jackson*.

THIRD TERM.

Mental Philosophy and Logic..... *Hickok*.

Plato,—Phædon, or Gorgias.

Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam,..... *Jackson*.

SENIOR CLASS.

FIRST TERM.

Optics,..... *Jackson*.

Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism,..... *Foster*.

Mental Philosophy, (concluded,) and Moral Philosophy, (commenced,)..... *Hickok*.

Criticism, ... *Kames*.

Plato Contra Atheos,—(Voluntary,)..... *Lewis*.

SECOND TERM.

Astronomy, ... *Gummere*.

Aristophanes—Birds or Clouds, ... *Felton*.

Moral Philosophy, (concluded,) *Hickok*.

Criticism, (concluded,) *Kames*.

Chemistry, ... *Fownes*.

THIRD TERM.

National and Constitutional Law,..... *Kent*.

Anatomy and Physiology,—*Lectures*.

Lectures on Literature, Chemistry, (continued,) Architecture, &c.

SCIENTIFIC COURSE.

JUNIOR CLASS.

FIRST TERM.

German, (Grammar,).....	<i>Peissner.</i>
Rhetoric, Composition and Declamation, (continued.)	
Conic Sections, <i>Jackson</i> ; or, Analytical Geometry, ...	<i>Davies.</i>
Draughting, (continued.)—(Voluntary,).....	<i>Mahan.</i>

SECOND TERM.

Political Economy.— <i>Lectures.</i>	
German, (Reader,).....	<i>Peissner.</i>
Statics and Dynamics,.....	<i>Jackson.</i>
Differential and Integral Calculus.—(Voluntary.)	
Draughting, (continued.)—(Voluntary.)— <i>Lectures.</i>	
Applied Mechanics.—(Voluntary,).....	<i>Sonnet.</i>

THIRD TERM.

Mental Philosophy and Logic,.....	<i>Hickok.</i>
German, (Literature,).....	<i>Peissner.</i>
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam,.....	<i>Jackson.</i>
Analytical Mechanics.—(Voluntary,).....	<i>Boucharlat.</i>
Applied Mechanics.—(Voluntary.)— <i>Lectures.</i>	
Draughting, (continued.)—(Voluntary,).....	<i>Mahan.</i>

SENIOR CLASS.

FIRST TERM.

Optics,.....	<i>Jackson.</i>
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism,.....	<i>Foster.</i>
Mental Philosophy, (concluded,) and Moral Philosophy, (commenced,).....	<i>Hickok.</i>
Criticism,.....	<i>Kames.</i>
Spanish.—(Voluntary,).....	<i>Schete de Vere.</i>
Geology,—(Voluntary.)	
Levelling and Topography.—(Voluntary.)— <i>Lectures.</i>	

SECOND TERM.

Astronomy,.....	<i>Gummere.</i>
Moral Philosophy, (concluded,).....	<i>Hickok.</i>
Criticism, (concluded,).....	<i>Kames.</i>
Chemistry,.....	<i>Fournes.</i>
Engineering Mensuration.—(Voluntary.)— <i>Lectures.</i>	

THIRD TERM.

National and Constitutional Law,.....	<i>Kent.</i>
Anatomy and Physiology,— <i>Lectures.</i>	
Political Economy.— <i>Lectures.</i>	
<i>Lectures</i> on Literature Chemistry, (continued,) Architecture, &c.	
Higher Surveying and Engineering Statics.—(Voluntary.)— <i>Lectures.</i>	

 A complete list of the studies of the Civil Engineering Course (which continues two terms longer) is given on page 13.

IV. MISCELLANEOUS INFORMATION.

1. **PAYMENTS AND EXPENSES.**—The College Bills are made out three times a year, and must be paid in advance. Students, unless from another College, pay for entrance into the Freshman Class, \$5; into the Sophomore Class, \$7; into the Junior Class, \$9; into the Senior Class, \$12. No retrospective expense is incurred by entering in advance.

The Registrar acts, without charge, as fiscal guardian, for all students who deposit funds in his hands.

The College Bills for Tuition, Room-rent, etc., are \$19 per term. When the College rooms are filled, \$4 per term is deducted from the bills of the students who are thereby obliged to room elsewhere. Board can be had at the Hall for \$2 to \$2.50 per week, according to the price of provisions. Fuel and Lights, about \$10 per year. Washing, \$3 per term. Furniture can be bought, and resold on leaving, or hired of the College servants.

Young men in straitened circumstances and of good character, on presenting certificates to that effect, are assisted more or less by the Trustees of the College, as long as they study and conduct in a satisfactory manner. The whole expense for tuition, board, fuel, lights, etc., etc., of students so assisted, will not, where economy is used, exceed from \$120 to 140 per annum.

2. **RESIDENCE AND DISCIPLINE.**—Students are expected to reside in the main buildings, which are occupied by the President and Professors and their respective families. No student can reside elsewhere without special permission.

The discipline of the institution is moral and parental. Disgraceful punishments are not inflicted; but no young man who indulges in gaming, intemperance, or other vice, who is absent from his room at night, or who habitually neglects his studies, can be allowed to remain.

An account of the delinquencies of every student, and of his daily attendance, conduct and scholarship, is kept. The result, determining his place on the Merit Roll, is reported at the close of each term, or more frequently, to his parent or guardian.

Every student is required to return punctually at the opening of each term and report himself at the Registrar's office; and till so re-

ported will be considered as absent, and so marked on his bill. A similar report, and for the same reason, is required after any temporary absence by sickness or permission.

3. FRESHMAN SCHOLARSHIPS.—*Prize Scholarships* have been founded by the President of the College, to be awarded to candidates who shall severally pass such thorough examinations as shall entitle them to the distinction. The incumbents of these scholarships will receive a credit equal to their term bill and ten dollars in cash for the first term, the same to be continued each term thereafter, during the entire collegiate course, provided they shall maintain their standing in their class: and provided also, they shall continue to comply with the rules prescribed by the founder of the scholarships; among which is the pledge on the part of each, that he will neither use intoxicating liquor as a beverage, nor tobacco in any of its forms, so long as he shall continue to receive the avails of the scholarship which has been awarded to him.

4. THE BLATCHFORD ORATORICAL MEDALS.—R. M. Blatchford, Esq., has recently founded an Oratorical Prize, consisting of two Gold Medals of the value of the income of \$1,000, to be given to the two members of the graduating class who shall deliver the best orations, "regard being had alike to their elevated and classical character, and to their graceful and effective delivery." Accordingly, two medals will be awarded, one of the value of \$40 to the best written and spoken oration, and one of the value of \$30 to the second best; to be determined by a committee appointed for that purpose, their award to be announced to the audience at the close of the exercises.

5. VACATIONS.—There are three vacations annually; one of six weeks immediately after commencement, which is on the 4th Wednesday of July; one of four or five weeks from the first of December, and one in April. Students are expected to return to their friends during vacations.

NOTE.

A Catalogue will be published each Term.

Students pass one Term, at least, before Matriculation, and more, unless papers, scholarship and conduct are entirely satisfactory.

C Classical Students.

S Scientific Students.

U University Students.

x Candidates for Matriculation.

‡ Candidates Matriculated, subject to conditions.

a Attendance not satisfactory.

c Conduct “

n Absent during the Term, or from Examination—to be hereafter examined.

— Deficient in one study at Examination.

” Dead.

† Left College.

N North College.

S. South College.

N H North Hall.

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> William Addy,	<i>Montreal, Canada East.</i>	
<i>C</i> Edward B. Allen,	<i>Auburn,</i>	106 Liberty-st.
† <i>U</i> William C. Allen,	<i>Buffalo.</i>	
† <i>C</i> William Apgar,	<i>Mount Pleasant, N. J.</i>	
<i>nS</i> Chester Averill,	<i>Schenectady.</i>	
† <i>C</i> James B. Beveridge,	<i>Newburgh.</i>	
<i>C</i> Moses H. Bliss,	<i>Salisbury.</i>	
<i>C</i> Orrin R. Bouton,	<i>Rockville.</i>	
<i>S</i> Menzo B. Boyce,	<i>Seward,</i>	Ostrander's.
*Frederick A. Braem,	<i>Poughkeepsie.</i>	
<i>C</i> Abner P. Brush,	<i>South Norwalk, Ct.,</i>	53 Barrett-st.
† <i>U</i> John Burt,	<i>Bellvale.</i>	
† <i>U</i> Andrew O. Butler,	<i>Belleville, Canada West.</i>	
<i>C</i> Smith S. Caldwell,	<i>Marion.</i>	
† <i>C</i> Daniel H. Calkins,	<i>Pulaski.</i>	
<i>C</i> B. Platt Carpenter,	<i>Poughkeepsie,</i>	37 S
‡ <i>S</i> Nicholas R. Casey,	<i>Auburn.</i>	
<i>C</i> George H. Chambers,	<i>Broadalbin.</i>	
*Charles H. Chapman,	<i>Northumberland.</i>	
<i>S</i> George P. Clark,	<i>Brooklyn,</i>	N H
<i>U</i> Frederick Cochrane,	<i>Methuen, Mass.</i>	
<i>C</i> William A. Coleman,	<i>Sandy Hill,</i>	29 S
† <i>U</i> John L. Crane,	<i>Butler.</i>	
<i>C</i> Benjamin F. Dake,	<i>Nunda,</i>	Ostrander's.

NAME.	RESIDENCES.	ROOMS.
<i>C</i> Joseph A. Daniels,	<i>East Holliston, Mass.</i>	
† <i>C</i> Elhanan W. Davis,	<i>Shiloh, N. J.</i>	
<i>C</i> S. Griffith Davis,	<i>Hall's Cross Roads, Md.,</i>	<i>Sedg-</i>
† <i>S</i> Robert Denniston, Jun.,	<i>Bloomington.</i>	<i>[wick's</i>
<i>C</i> John H. Deremer,	<i>Charlton,</i>	<i>43 S</i>
† <i>C</i> Walton Duane,	<i>Schenectady.</i>	
† <i>U</i> Elton M. Dunn,	<i>Plainfield, N. J.</i>	
<i>nC</i> Cordello D. Elmer,	<i>Rome.</i>	
<i>C</i> John B. Emmes,	<i>Hammond.</i>	
<i>S</i> Mahlon Felter,	<i>Summit,</i>	<i>Ostrander's.</i>
<i>C</i> R. Clark Flack,	<i>Argyle.</i>	
<i>S</i> William F. Freeman,	<i>Stillwater,</i>	<i>16 N</i>
† <i>U</i> James F. Gillette,	<i>New-York City.</i>	
<i>C</i> John Gilmour,	<i>Glasgow, Scotland,</i>	<i>2 S</i>
<i>U</i> Horace M. Hastings,	<i>Geneva,</i>	<i>28 Lafayette-st.</i>
† <i>U</i> John K. Groot,	<i>Schenectady.</i>	
<i>S</i> Daniel W. Holmes,	<i>Walworth.</i>	
<i>nC</i> Jesse W. Holmes,	<i>Hammond.</i>	
<i>C</i> George D. Horner,	<i>Burlington, N. J.</i>	
<i>U</i> Addison A. Hosmer,	<i>Oakdale, Mass.</i>	
<i>xC</i> Clinton Howe,	<i>Paris, Me.</i>	
† <i>U</i> Charles L. Hoyt,	<i>Osceola, Pa.</i>	
<i>S</i> William Jeffords,	<i>Triangle,</i>	<i>15 S</i>
† <i>C</i> Rufus H. King, Jun.,	<i>Albany.</i>	
<i>C</i> George LaMont,	<i>Charlotteville.</i>	
<i>C</i> E. Frank Leonard,	<i>Providence, R. I.</i>	
† <i>C</i> Sylvester D. Lewis,	<i>Gorham.</i>	
† <i>S</i> Abel T. Lincoln,	<i>Rising Sun, Md.</i>	
† <i>C</i> William K. Logie,	<i>Assumption, La.</i>	

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> J. Zabriskie Lott,	<i>Flatbush.</i>	
<i>C</i> Henry R. Lovell,	<i>Sharon, Ct.,</i>	10 S
<i>C</i> Francis Lynn,	<i>Springfield, Ohio.</i>	
<i>C</i> Joseph B. McChesney,	<i>Schaghticoke.</i>	
† <i>S</i> John T. McCreary,	<i>Cerry Hill, Md.</i>	
<i>nC</i> Daniel S. Mann,	<i>Broadalbin.</i>	
<i>U</i> Henry T. Martin,	<i>Albany, ' Swart's, Union-st.</i>	
<i>C</i> Daniel L. Millard,	<i>Delhi.</i>	
<i>S</i> Albert Moffatt,	<i>Limerick.</i>	
<i>C</i> Bowen B. Moon,	<i>Russia.</i>	
<i>S</i> Adiel S. Morse,	<i>Watertown,</i>	12 N
<i>C</i> William D. Morton,	<i>Brooklyn,</i>	42 S
<i>U</i> Charles H. Muenscher,	<i>Mount Vernon, Ohio.</i>	
<i>C</i> Samuel S. Newbury,	<i>Dubuque, Iowa,</i>	45 N
<i>C</i> John Nixon,	<i>Montgomery.</i>	
<i>S</i> William Noetling, Jun.,	<i>New-Berlin, Pa.,</i>	15 S
<i>C</i> Aaron Niskern,	<i>Carlisle.</i>	
<i>C</i> William W. Northrop,	<i>Cleveland, Ohio.</i>	
† <i>U</i> Marcus P. Norton,	<i>Tinmouth, Vt.</i>	
<i>C</i> Matthew N. Oliver,	<i>Marbletown,</i>	1 Lafayette-st.
† <i>U</i> Abiah W. Palmer,	<i>Amenia.</i>	
† <i>C</i> James M. Parker,	<i>New-York.</i>	
<i>C</i> Jerome B. Parmenter,	<i>Pittstown,</i>	28 S
† <i>S</i> Edward D. Parris,	<i>Paris, Me.</i>	
<i>C</i> Robert C. Perry,	<i>San Francisco, Cal.,</i>	2 N
<i>nC</i> Mark W. Piper,	<i>Bangor, Me.</i>	
† <i>S</i> George A. Pomeroy,	<i>Utica.</i>	
† <i>U</i> William H. Poor,	<i>Glenville.</i>	
† <i>U</i> Isaiah J. Porter,	<i>York, Pa.</i>	

NAMES.	RESIDENCES.	ROOMS.
†C Horace Potter,	<i>New-Lisbon, Ohio.</i>	
†C Charles W. Pratt,	<i>Little Falls.</i>	
C Gilbert E. Pratt,	<i>Albany.</i>	
U John H. Prentiss,	<i>Bangor, Me.</i>	
†U James M. Prioleau.	<i>Charleston, S. C.</i>	
C Henry Purdon,	<i>Honesdale, Pa.</i>	
C Henry R. Rathbone,	<i>Albany,</i>	37 N
C Leander B. Reynolds,	<i>La Crosse, Wis.</i>	
C Daniel W. Richardson,	<i>Middleton, Mass.,</i>	11 S
C Edward Roberts,	<i>Remsen,</i>	7 S
C Lewis B. Rogers,	<i>Albion,</i>	59 Jay-st.
†C Edmund F. Rowland,	<i>Springfield, Mass.</i>	
U Louis Ruttkay,	<i>Pesth, Hungary,</i>	32 S
†U Charles D. Seely,	<i>Ballston.</i>	
C L. Clark Seelye,	<i>Bethel, Ct.,</i>	5 S
C James J. Siebert,	<i>Pottsville, Pa.</i>	
C Gilbert P. Sherwood,	<i>Poughkeepsie,</i>	38 S
U Samuel L. Shotwell,	<i>Macedon Centre.</i>	
†U Jacob S. Spaun,	<i>Bethlehem.</i>	
S John S. Stacy,	<i>Gouverneur.</i>	
†U Josiah P. Stone,	<i>Camden.</i>	
C Alexander McA. Thorburn,	<i>Albany,</i>	43 S
S Chester C. Thorne,	<i>Skeneateles,</i>	Ostrander's.
C Edwin H. Tenny,	<i>Lyme, N. H.</i>	
C George E. Tomlinson,	<i>Shiloh, N. J.,</i>	23 N
S Horace T. S. Tupper,	<i>Moresville,</i>	5 S. Colon.
U Roswell D. Valentine,	<i>Slatersville,</i>	Ostrander's.
C Gerrit W. V. Van Voast,	<i>Schenectady, Union-st. continued</i>	
S Lorenzo D. Vickery,	<i>Ellisburgh,</i>	32 S

SENIOR CLASS.

31

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> Cyrus Watts,	<i>Cleveland, Ohio,</i>	35 S
<i>C</i> Alfred Webster,	<i>Moline, Wis.</i>	
<i>S</i> J. Willis Westlake,	<i>Honesdale, Pa., Liberty & Barrett.</i>	
<i>xC</i> Alfred Wheeler,	<i>Fairfax, Vt.</i>	
<i>nC</i> Lewis J. Wheeler,	<i>West Concord.</i>	
<i>C</i> Albert Whitford,	<i>Leonardsville.</i>	
<i>C</i> Anderson R. Wightman,	<i>Richburgh,</i>	12 S
<i>nS</i> Richard Wilber,	<i>Morrisville.</i>	
<i>nC</i> Edwin Wildman,	<i>Whitesville.</i>	
<i>C</i> John W. Wilkeson,	<i>Buffalo,</i>	45 N
† <i>U</i> Franc B. Wilkie,	<i>Davenport, Iowa.</i>	
† <i>U</i> James Wilkinson,	<i>Madrid.</i>	
† <i>U</i> Wendell D. Wiltsie,	<i>Schenectady.</i>	
<i>nC</i> George H. Wood,	<i>North Salem.</i>	
<i>C</i> Waldes W. Wood,	<i>Hinsdale,</i>	47 N
<i>U</i> Jon Woodworth,	<i>Tyre.</i>	
<i>C</i> William J. Wright,	<i>Bridport, Vt.,</i>	23 N
<i>nS</i> Peter Wyckoff,	<i>Brooklyn.</i>	
<i>C</i> N. Lansing Zabriskie,	<i>Flatbush.</i>	

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
<i>nC</i> Oliver O. Alexander,	<i>Schenectady,</i>	41 S
† <i>C</i> A. G. S. Allis,	<i>Syracuse.</i>	
<i>C</i> Allard Anthony,	<i>Fishkill,</i>	18 N
<i>S</i> S. Savil Bass,	<i>Cowlesville,</i>	41 S
<i>C</i> Clarence Bate,	<i>Louisville, Ky.,</i>	116 Union-st.
<i>C</i> Charles Beattie,	<i>Cornwall.</i>	
† <i>U</i> Erastus D. Benedict,	<i>Lisle.</i>	
‡ <i>C</i> Ira G. Bidwell,	<i>Willington, Ct.,</i>	106 Liberty-st
<i>S</i> Alonzo C. Bigelow,	<i>Bloomfield, Me.,</i>	25 N
<i>U</i> William H. Bigelow,	<i>Bloomfield, Me.,</i>	25 N
<i>C</i> Emmett Blair,	<i>Broadalbin,</i>	19 N
‡ <i>C</i> Rodmus W. Bosworth,	<i>Cambridge,</i>	28 S
<i>C</i> George W. Boyd,	<i>New-York,</i>	34 State-st.
† <i>U</i> Arnold B. Briggs,	<i>Fairhaven, Vt.</i>	
† <i>U</i> Sidney R. Burnap,	<i>Charleston.</i>	
† <i>C</i> Henry A. Buttz,	<i>Coolbaugh, Pa.</i>	
<i>U</i> Colin Campbell,	<i>Cherry Valley,</i>	44 N
‡ <i>C</i> Amos Case,	<i>Sodus.</i>	
<i>C</i> William R. Chase,	<i>Andover, Vt.,</i>	13 S
<i>U</i> Nathaniel F. Cheesman,	<i>Clinton.</i>	
<i>C</i> George W. Colman,	<i>LaMoille, Ill.,</i>	10 S
<i>C</i> Robert S. Coleman,	<i>Sandy Hill,</i>	27 S
<i>U</i> Leroy C. Cooley,	<i>Point Peninsular.</i>	
<i>C</i> Thomas Corbett,	<i>Albany,</i>	17 N

JUNIOR CLASS.

33

NAMES.	RESIDENCES.	ROOMS.
<i>nS</i> Nathan S. Cornell,	<i>Jonesville.</i>	
<i>C</i> James A. Cowles,	<i>Oakfield,</i>	Miss Shurtliff's.
† <i>C</i> John P. Cowles,	<i>Durham.</i>	
† <i>S</i> William C. Crafts,	<i>Cherry Valley.</i>	
<i>nC</i> Warner Craig,	<i>Northumberland.</i>	
<i>C</i> Oscar H. Curtis,	<i>Norwich,</i>	10 N
† <i>C</i> Horace M. Dake,	<i>Marion, Ill.</i>	
<i>S</i> Anson J. Daniels,	<i>Vesper,</i>	Liberty & Barrett-sts.
<i>C</i> John W. Davies,	<i>Poughkeepsie,</i>	Swart's, Union-st.
† <i>C</i> Ephraim J. Dean,	<i>Cazenovia.</i>	
<i>U</i> Rodney Dennis,	<i>Jasper,</i>	13 N
<i>S</i> Edmund S. Dewey,	<i>Ames,</i>	16 S
† <i>U</i> Charles T. Dix,	<i>New-York.</i>	
<i>C</i> † William A. Donaldson,	<i>Wellsborough, Pa.</i>	
† <i>S</i> William S. Dunn,	<i>Nyack Turnpike.</i>	
<i>C</i> Peter W. Emens,	<i>Romulus,</i>	59 Jay-st.
<i>C</i> Jacob H. Enders,	<i>Fort Hunter.</i>	32 N
<i>C</i> Charles D. Flagler,	<i>Lansingburgh,</i>	40 S
<i>C</i> Richmond Fisk, Jun.,	<i>Hoosick Falls,</i>	Ostrander's.
<i>U</i> Henry W. Fowler,	<i>Baton Rouge, La.,</i>	Ostrander's.
† <i>C</i> Truman K. Fuller,	<i>Vesper.</i>	
† <i>C</i> William H. Gardner,	<i>Walworth.</i>	
† <i>C</i> Robert L. Garrettson,	<i>Rhinebeck.</i>	
<i>nC</i> Archibald George,	<i>Mayfield.</i>	
<i>C</i> Hiram J. Gordon,	<i>Charleston,</i>	43 N
<i>C</i> Joseph Graham,	<i>Wilna,</i>	20 N
<i>C</i> Jeremiah Greene,	<i>Sodus,</i>	10 N
<i>C</i> Richard L. Hand,	<i>Elizabethtown,</i>	21 S
<i>S</i> Marcus D. Hanover,	<i>Wilbraham, Mass.,</i>	47 N

NAMES.	RESIDENCES.	ROOMS.
<i>U</i> Arthur Harlow,	<i>Scotchtown,</i>	54 Jay-st.
<i>C</i> Henry L. Harter,	<i>Jordanville,</i>	12 N
<i>nC</i> George C. Hazelton,	<i>Chester, N. H.</i>	
<i>C</i> John L. Herford,	<i>Wilkesboro, Ill.,</i>	40 S
† <i>C</i> Lemuel T. Heritage,	<i>Shiloh, N. J.</i>	
† <i>U</i> Don Alonzo Hulett,	<i>Heuvelton.</i>	
<i>C</i> William A. Jackson,	<i>Hamptonburgh,</i>	43 N
<i>C</i> William M. Johnson,	<i>Cambridge,</i>	44 S
<i>nS</i> John Kelly,	<i>Greene.</i>	
<i>C</i> Isaac H. Kirby,	<i>Roslyn,</i>	28 N
<i>U</i> Frank Krause.	<i>Mansfield, Ohio.</i>	
<i>S</i> John R. Lambson,	<i>New-Castle, Del.,</i>	26 S
<i>C</i> John Lanning,	<i>Wilkesbarre, Pa.,</i>	218 State-st.
† <i>S</i> Charles D. Lawton,	<i>Auburn,</i>	33 N
<i>C</i> John H. Leggett,	<i>Stillwater,</i>	16 N
<i>C</i> Daniel K. Lietch,	<i>Skeneateles,</i>	32 N
<i>C</i> C. Southworth Lincoln,	<i>South Bristol,</i>	4 S
<i>S</i> Alonzo S. Livermore,	<i>Sunbury, Pa.,</i>	16 S
† <i>U</i> Daniel B. Low,	<i>Williamsburgh, Miss.</i>	
<i>S</i> S. Baldwin Ludlow, Jun.,	<i>Oswego.</i>	5 S
† <i>C</i> Alexander B. McClellan,	<i>Cambridge.</i>	
† <i>S</i> Girard L. McKenzie,	<i>Boonton, N. J.</i>	
<i>C</i> John K. McLean,	<i>Salem,</i>	25 S
<i>U</i> George R. McRee,	<i>Greenville, Ala.,</i>	21 S
<i>S</i> Silas C. Mason,	<i>Beekmantown,</i>	137 Union-st.
<i>S</i> Paul Henri Mayor,	<i>Berkshire,</i>	35 S
† <i>C</i> John A. Maxwell,	<i>New-York.</i>	
<i>U</i> Lebbius H. Mitchell.	<i>Parishville,</i>	20 N
† <i>C</i> Frederick M. Montieth,	<i>Broadalbin.</i>	

NAMES.	RESIDENCES.	ROOMS.
*Michael Mullin,	<i>County Derry, Ireland.</i>	
—C John T. Mygatt,	<i>Oxford,</i>	218 State-st.
S Luman P. Norton,	<i>Bennington, Vt.,</i>	31 S
S Lafayette Olney,	<i>Hecla Works,</i>	38 Barrett-st.
†U Thomas A. E. O'Neill,	<i>Duanesburgh.</i>	
†S David H. Ostrom,	<i>Schenectady.</i>	
S Sherman Page,	<i>Cambridge, Vt.,</i>	3 Romeyn-st.
C Robert T. Paine, Jun.,	<i>Jordan,</i>	13 S
C Edwin R. Paynter,	<i>Drawbridge, Del.,</i>	218 State-st.
nC John H. H. Paynter,	<i>Drawbridge, Del.,</i>	218 State-st.
C Elhanan V. Peterson,	<i>Lodi,</i>	45 S
C Frederick W. Pike,	<i>Mercer, Me.,</i>	27 N
†C John J. Pinkerton,	<i>Downingtown, Pa.</i>	
†C A. Detweiler Price,	<i>Pottstown, Pa.</i>	
C J. Urner Price,	<i>North Coventry, Pa.,</i>	18 S
U George A. Putnam,	<i>Dunbarton, N. H., Lib. & Laf't.</i>	
C Henry N. Raymond,	<i>Cleveland, Ohio, Mead's, Laf't-st.</i>	
U Joseph W. Reed,	<i>South Argyle,</i>	3 Romeyn-st.
S Maxwell B. Richardson,	<i>Oswego,</i>	25 S
S Charles J. Robinson,	<i>Holley,</i>	30 S
C Thomas A. Sanson,	<i>Princetown, Liberty & Lafayette.</i>	
†C William Settle, Jun.,	<i>Johnstown.</i>	
C Charles P. Shaw,	<i>Jay,</i>	11 N
C John P. Shumway,	<i>Baldwinsville,</i>	94 Liberty-st.
C William H. Silvernail,	<i>Chatham,</i>	27 S
C Alexander Simplot,	<i>Dubuque, Iowa,</i>	18 South-av.
†U A. Hermance Smith,	<i>Charlton.</i>	
†U George D. M. Sterritt,	<i>Watertown.</i>	
S Edwin A. Strong,	<i>Otisco,</i>	110 Liberty-st.

	NAMES.	RESIDENCES.	ROOMS.
C	Josiah R. Sypher,	<i>Liverpool, Pa.,</i>	12 S
C	John C. Taylor,	<i>Penn Yan,</i>	39 N
U	Charles E. Thompson,	<i>Deposit, Swart's, Union-st.</i>	
C	William Thompson,	<i>Poughkeepsie,</i>	34 State-st.
U	Joseph Thyne,	<i>Johnstown,</i>	3 Romeyn-st.
†S	James R. Tryon,	<i>Coxsackie,</i>	42 N
†U	Theodore F. Vail,	<i>Litchfield, Ct.</i>	
C	Francis V. Van Vranken,	<i>Princetown, Liberty & Lafayette.</i>	
†C	William P. Warner,	<i>Nunda.</i>	
U	Frederick A. Watrous,	<i>Galveston, Texas,</i>	20 S
C	Jacob H. Weber,	<i>Herkimer,</i>	6 S
†U	James Westervelt,	<i>New-York.</i>	
S	Zebulon Weston,	<i>Harrison, Me.,</i>	27 S
C	Alanson Wheeler,	<i>Nile,</i>	28 N
†U	Romeyn Whiteside,	<i>Davenport.</i>	
S	Thomas C. Whiteside,	<i>Wabash, Ia.,</i>	46 S
C	Oscar F. Whitford,	<i>Northumberland,</i>	15 N
†C	Alonzo C. Whitridge,	<i>Charleston, S. C.,</i>	116 Union-st.
C	Warren Wilkinson,	<i>Omro, Wis.,</i>	41 N
U	Henry G. Wismer,	<i>St. Thomas, Canada West,</i>	48 N
C	Edgar M. Wood,	<i>Cheshire, Mass.,</i>	18 N

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
†U George W. Adams,	<i>Watertown.</i>	
U Samuel J. Alves,	<i>Henderson, Ky.,</i>	38 S
C Charles E. Baldwin,	<i>Albany,</i>	29 Barrett-st.
†C Samuel S. Bailey,	<i>West Point,</i>	46 S
U John Baldwin,	<i>Albany,</i>	29 Barrett-st.
—C Robert C. Barnum,	<i>St. Louis, Mo., Swart's,</i>	Union-st.
nC Timothy B. Barrett,	<i>Canaan, Me.,</i>	Ostrander's.
C Edward O. Bartlett,	<i>Poughkeepsie,</i>	Ostrander's.
U Daniel Beach,	<i>Tyrene.</i>	
†C Harry Brodhead,	<i>Blacklake.</i>	
U Thomas B. Brooks,	<i>Munroe,</i>	8 S
†C Abram G. Brower,	<i>Schenectady,</i>	Bridge-st.
†U William LeGrand Card,	<i>La Cross, Wis.</i>	
C John M. Carmichael,	<i>Johnstown,</i>	3 Romeyn-st.
nC Lucian E. Carter,	<i>Evans' Mills.</i>	
U Jerome B. Chapman,	<i>Warrensburgh.</i>	
C Edwin Chase,	<i>Portland, Me.,</i>	92 Liberty-st.
U Gaylord J. Clark,	<i>East Candor,</i>	31 N
C Francis Collins,	<i>Fowlersville,</i>	17 S
C Gansevoort D. Consaul,	<i>Schenectady,</i>	54 Barrett-st.
C J. Darwin S. Cook,	<i>Ledgedale, Pa.,</i>	24 S
U Charles E. Cowdrey,	<i>Ithaca,</i>	14 S
C George W. DeCosta,	<i>Charlestown, Mass.,</i>	47 N
C Henry Ditmas,	<i>Flatbush,</i>	21 Church-st.

NAMES.	RESIDENCES.	ROOMS.
<i>x C</i> James Dobbin,	<i>Salem,</i>	13 N
† <i>C</i> Charles Duff,	<i>Walpole, Canada West.</i>	
<i>C</i> David R. Eddy,	<i>Lewiston.</i>	
<i>U</i> Nathaniel M. Edwards,	<i>Haverhill, Mass.,</i>	47 S
<i>C</i> Eugene Elmendorf,	<i>Palmyra,</i>	44 N
<i>n C</i> Charles S. Farnham,	<i>Buffalo,</i>	92 Liberty-st.
† <i>U</i> David S. Farnham,	<i>West Lebanon, Me.</i>	
<i>C</i> Nathan C. Giffin,	<i>Heuvelton,</i>	23 N
<i>x C</i> Alexander Gilchrist, Jun.,	<i>West Charlton,</i>	48 N
<i>C</i> John Gilpin, Jun.,	<i>Kittanning, Pa.,</i>	30 N
<i>C</i> Philip K. Gleed,	<i>Watervliet, Vt.,</i>	8 N
<i>C</i> David Gordon,	<i>Johnstown,</i>	3 Romeyn-st.
<i>C</i> Russell L. Grant,	<i>Rosendale,</i>	6 S
<i>C</i> William Greene,	<i>Kingsboro,</i>	17 S
<i>U</i> Washington Groesbeck,	<i>Bethlehem,</i>	11 N
<i>n C</i> Charles J. Hamlin,	<i>Aurora,</i>	29 N
† <i>C</i> George C. Harrington,	<i>Joliet, Ill.</i>	
<i>C</i> David Heagle,	<i>Rockford, Ill.,</i>	48 S
<i>U</i> Hiram C. Johns,	<i>Troy, Pa.,</i>	12 N
† <i>C</i> Myron A. Johnson,	<i>Hadley, Mass.</i>	
<i>C</i> William C. Jones,	<i>Doe Run, Pa.,</i>	30 N
<i>C</i> Alexis A. Julien,	<i>New-York,</i>	92 Liberty-st.
† <i>U</i> Frederick M. H. Kendrick,	<i>Albany.</i>	
<i>S</i> Timothy Lightbown,	<i>Sauquoit,</i>	28 N
<i>C</i> Horatio C. Lillie,	<i>Butternuts,</i>	2 S. Colon.
<i>C</i> Frank W. Little,	<i>Cherry Valley,</i>	41 N
<i>U</i> Frederick H. Lovejoy,	<i>Owego.</i>	
† <i>C</i> Archibald S. McClure,	<i>Elmira.</i>	
<i>x S</i> John C. McCready,	<i>New-Wilmington, Pa.,</i>	23 S

SOPHOMORE CLASS.

39

NAMES.	RESIDENCES.	ROOMS.
†C John M. McKenzie,	<i>Schenectady.</i>	
C William L. Mead,	<i>West Charlton,</i>	47 S
†S William T. Meredith,	<i>Perth Amboy, N. J.</i>	
U Adam W. Miller,	<i>Gouverneur.</i>	
C George D. B. Miller,	<i>Holley,</i>	30 S
‡C Augustus W. Nicoll,	<i>Bloomington,</i>	6 N
U James O'Connor,	<i>Andes,</i>	13 N
‡C James M. Oliver,	<i>Penn Yan,</i>	22 N
†C Pascal H. Owen,	<i>Montgomery, Ala.</i>	
C Charles H. Peck,	<i>Sandlake,</i>	39 S
†C Hubert F. Peebles,	<i>Oriskany Falls.</i>	
†S Emerson W. Perry,	<i>Shoreham, Vt.</i>	
‡C Van Ness A. Pierce,	<i>Hamilton,</i>	96 Union-st.
C Stephen B. Pound,	<i>Ontario,</i>	9 S
C Wilson M. Powell,	<i>Chatham,</i>	29 N
†C William N. Randles,	<i>West Hebron,</i>	5 N
C John D. Reynolds,	<i>Hillsdale,</i>	31 N
C Benjamin F. Rexford,	<i>Norwich,</i>	31 S
S John Roberts,	<i>Harrisonville.</i>	
xC James H. Robinson,	<i>Argyle,</i>	5 N
†U Joseph P. Rood,	<i>Johnstown.</i>	
C Thomas Rose,	<i>Stephentown,</i>	11 S
C Teunis Schenck,	<i>Flatbush,</i>	17 N
‡C Charles Sears,	<i>Mechanicville,</i>	39 S
†C Samuel S. Seward,	<i>Florida.</i>	
nC William F. Smalley,	<i>Christiana, Del.,</i>	26 S
†U Henry E. W. Smeltzer,	<i>Middletown, Md.</i>	
S Edward W. Smith,	<i>Schenectady, Washington-avenue.</i>	
C George T. Smith,	<i>Poundridge,</i>	7 S

NAMES.	RESIDENCES.	ROOMS.
†S Ira S. Smith.	<i>Woodhull.</i>	
C Norman L. Snow,	<i>Root,</i>	38 N
†C Wesley Squire.	<i>Wales, Mass.</i>	
C Richard C. Steele,	<i>Auburn,</i>	33 S
U Allen Taylor,	<i>Bangor,</i>	2 S. Colon.
U Darius M. Thompson,	<i>Deposit,</i>	Swart's, Union-st.
†C James N. Thresher,	<i>Stafford, Ct.</i>	
†C Edgar I. Truax,	<i>Schenectady,</i>	90 Ferry-st.
†C Henry Tupper,	<i>Monson, Mass.</i>	
C Charles S. Vail,	<i>Florida,</i>	8 S
†U Peter J. Van Vranken,	<i>Niskayuna.</i>	
C Henry L. Warner,	<i>Harvard, Mass.,</i>	8 N
†C Nicholas Warner,	<i>Schenectady,</i>	54 Washington-av.
†U Eliakim S. Weld,	<i>Willett.</i>	
C George M. Wiley,	<i>Putnam,</i>	3 Romeyn-st.
†S Adam C. Works,	<i>Ausable Forks,</i>	3 Romeyn-st.

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
<i>U</i> Horatio O. Abbott,	<i>Webster,</i>	14 N
<i>C</i> Lloyd Baldwin,	<i>New-Sharon, Me.,</i>	29 Barrett-st.
<i>C</i> Cornelius W. Battell,	<i>Quincy, Ill.</i>	
† <i>C</i> Edwin R. Beach,	<i>Liberty,</i>	N. Colon.
† <i>C</i> John H. Becker,	<i>Saratoga,</i>	15 N
<i>C</i> Samuel T. Benedict,	<i>New-York,</i>	42 N
<i>C</i> John Beveridge,	<i>Hamptonburgh,</i>	6 N
<i>C</i> John P. Birch,	<i>Amsterdam,</i>	Lafayette-st.
† <i>C</i> Abraham Bockee,	<i>Poughkeepsie,</i>	9 N
† <i>C</i> Samuel A. Bowen,	<i>Middlefield Centre,</i>	9 N
<i>C</i> Charles A. Conant,	<i>Temple, Me.,</i>	2 S. Colon.
<i>C</i> A. Campbell Fowler,	<i>Pawling,</i>	42 S
<i>C</i> Neil Gilmour,	<i>Glasgow, Scotland,</i>	2 S
<i>x C</i> Josiah M. Haynes,	<i>Waterville, Me.,</i>	24 N
† <i>U</i> Antonio Hekking,	<i>New-York.</i>	
† <i>C</i> George N. Little,	<i>Cherry Valley,</i>	37 N
<i>C</i> Benjamin F. Loomis,	<i>Binghampton,</i>	Ostrander's.
<i>C</i> William C. Macy,	<i>Hudson,</i>	N H
<i>U</i> Wesley McGilton,	<i>Ogalley, Wis.</i>	
<i>C</i> William M. Milby,	<i>Indianola, Texas,</i>	20 S
<i>C</i> Warner Miller,	<i>Northampton,</i>	35 N
<i>C</i> Gideon P. Nichols,	<i>Windsor, Mass.,</i>	44 S
<i>C</i> Charles E. Patterson,	<i>Schenectady,</i>	82 Liberty-st.
<i>C</i> J. Franklin Patterson,	<i>Schenectady,</i>	82 Liberty-st.

NAMES.	RESIDENCES.	ROOMS.
<i>U</i> Alexander Rankin,	<i>Henderson, Ky.,</i>	38 S
<i>x C</i> Samuel T. Reed,	<i>Attleboro', Mass.,</i>	Lafayette-st.
<i>C</i> Colton J. Reed,	<i>Glensdale,</i>	26 N
<i>C</i> Willie M. Rexford,	<i>Norwich,</i>	18 S
<i>C</i> George F. Seward,	<i>Florida,</i>	37 S
<i>C</i> Henry L. Smith,	<i>Houseville,</i>	25 N
<i>U</i> John T. Smith,	<i>Yaphank,</i>	24 N
<i>C</i> Charles E. Sprague,	<i>Schenectady, Union-st. continued.</i>	
<i>U</i> Conrad T. Stark,	<i>Old Forge, Pa.,</i>	7 N
<i>C</i> William D. Taylor,	<i>Branchport,</i>	39 N
<i>C</i> William C. Trull,	<i>Cherry Valley,</i>	7 N

STUDENTS OF CIVIL ENGINEERING.

[Registered in the preceding Classes.]

FIRST YEAR STUDENTS.

N. M. Edwards,	<i>Haverhill, Mass.,</i>	47 S
W. Groesbeck,	<i>Bethlehem,</i>	11 N
T. Lightbown,	<i>Sauquoit,</i>	28 N
C. Sears,	<i>Mechanicville,</i>	39 S
H. G. Wisner,	<i>St. Thomas, Canada West,</i>	48 N

SECOND YEAR STUDENTS.

A. C. Bigelow,	<i>Bloomfield, Me.,</i>	25 N
T. B. Brooks,	<i>Munroe,</i>	8 S
J. A. Deremer,	<i>Charlton,</i>	43 S
E. H. Dewey,	<i>Ames,</i>	16 S
H. W. Fowler,	<i>Baton Rouge, La.,</i>	Ostrandor's.
W. H. Freeman,	<i>Stillwater,</i>	16 N
M. D. Hanover,	<i>Wilbraham, Mass.,</i>	47 N

STUDENTS IN BLOW-PIPE ANALYSIS.

43

NAMES.	RESIDENCES.	ROOMS.
A. S. Livermore,	<i>Sunbury, Pa.,</i>	16 S
P. H. Mayor,	<i>Berkshire,</i>	35 S
W. Noetling,	<i>New-Berlin, Pa.,</i>	15 S
C. J. Robinson,	<i>Holley,</i>	30 S
C. E. Thompson,	<i>Deposit,</i> Swart's, Union-st.	
Z. Weston,	<i>Harrison, Me.,</i>	27 S

STUDENTS IN ANALYTICAL CHEMISTRY.

Sidney A. Norton, A. B.,	<i>Cleveland, Ohio,</i> Swart's, Union-st.	
Eliphalet Nott, Jun., A. B.,	<i>Schenectady,</i>	Dr. Nott's.
David T. Potter, A. B.,	<i>New-York.</i>	

[Registered in the preceding Classes.]

C. Bate,	<i>Louisville, Ky.,</i>	116 Union-st.
C. Campbell,	<i>Cherry Valley,</i>	44 N
J. W. Davies,	<i>Poughkeepsie,</i>	Swart's, Union-st.
H. F. Martin,	<i>Albany,</i>	Swart's, Union-st.

STUDENTS IN BLOW-PIPE ANALYSIS.

[Registered in the preceding Classes.]

T. B. Brooks,	<i>Monroe,</i>	8 S
G. W. Colman,	<i>La Moille, Ill.,</i>	10 S
J. A. Cowles,	<i>Oakfield,</i>	Miss Shurtliff's.
C. S. Farnham,	<i>Buffalo,</i>	92 Liberty-st.
A. A. Julien,	<i>New-York,</i>	92 Liberty-st.
L. H. Mitchell,	<i>Parishville,</i>	20 N
A. S. Morse,	<i>Watertown.</i>	
A. C. Whitridge,	<i>Charleston, S. C.,</i>	116 Union-st.
J. W. Wilkeson,	<i>Buffalo,</i>	45 N

PRIZE SCHOLARSHIPS.

The Prize Scholarships endowed by Dr. NOTT, have been awarded to the following persons :

CLASS OF 1857.

HENRY R. LOVELL.

Prepared under Rev. J. D. WICKHAM, D.D., Manchester, Vt.

SAMUEL S. NEWBURY.

Prepared under Prof. CARL RUGER, Cleveland, Ohio.

L. CLARK SEELYE.

Prepared under Rev. S. T. SEELYE, A. M., Albany.

CLASS OF 1858.

GEORGE W. COLMAN.

Prepared under E. W. JOHNSON, A. M., Westfield.

CLASS OF 1859.

DAVID HEAGLE.

Prepared under C. A. AVERY, A. M., Seneca Falls.

CHARLES H. PECK.

Prepared under WM. H. SCRAM, A. M., Sand Lake.

J. DARWIN S. COOK.

Prepared under Rev. GEO. KERR, LL. D., Franklin.

CLASS OF 1860.

G. P. NICHOLS.

Prepared under Rev. JAMES NICHOLS, Windsor, Mass.

CHARLES E. SPRAGUE.

Self-prepared.

SUMMARY.

SENIORS, - - - - -	130
JUNIORS, - - - - -	132
SOPHOMORES, - - - - -	98
FRESHMEN, - - - - -	35
RESIDENT GRADUATES, - - - - -	3
TOTAL, - - - - -	398

DEPARTMENT OF CIVIL ENGINEERING.

UNION COLLEGE, SCHENECTADY, N. Y.

THIS Department was founded in 1845 by its present Director, PROF. GILLESPIE. Its principal object is to prepare students for the profession of Civil Engineering, by giving them such instruction in its theory and practice as to qualify them for immediate usefulness in the field and office in a subordinate capacity, and at the same time to fit them to fill satisfactorily the higher positions in the profession after a moderate amount of experience in the routine of practice. Its lectures are also open to those who desire only such a knowledge of its leading subjects as is necessary to complete a liberal education.

The labours of the Civil Engineer may be classified as follows:

I. *Making the measurements necessary to determine precisely the form of the ground which is to be operated upon; i. e.*
SURVEYING and LEVELLING.

These subjects are taught by text book and lectures, with frequent field-practice in the use of all the instruments; as the Chain, Cross, Compass, Transit, Plane table, Level, Theodolite, Barometer, Sextant, &c.; applied to the survey of farms, roads, mines, rivers and harbors, &c.

II. *Determining the forms and dimensions of the works to be executed*; i. e. MAKING PROJECTS.

To do this the student must learn the principles of the strength of materials and the stability of structures. These are taught under the title of Engineering Statics, with numerous exercises in the calculation of practical examples of the resistance of bodies to breaking by tensile, compressive, and transverse strains, and of structures to overturning, with applications to frames, arches, &c. A working model of a bridge, in which the strains at various points are shewn by a Dynamometer, illustrates beautifully the identity of the results of theory and experiment.

The student must also learn the general principles of construction, with reference to the physical laws involved, and the adaptation of the best means to the desired ends.

III. *Representing on paper objects and places as they are designed to be*; i. e. DRAUGHTING and MAPPING.

The course begins with the construction of geometrical problems. This is followed by DESCRIPTIVE GEOMETRY, which has been termed the *language* of the Engineer, which he must therefore learn to read and to write. The College possesses unusual facilities for this study in collections of models obtained in Europe in 1855, and comprising German models, in wood, wire and tin, of the elementary problems; French plaster models of the intersections of solids; and the great Olivier collection of fifty models, forming the most complicated warped surfaces and others, by silk threads, stretched straight by weights, and admitting of an infinite variety of changes and transformations. The Engineering museum also contains plaster models of stereotomy from the Polytechnic school of Paris, and various models of oblique arches. The students make figured *croquis* of these and other objects by eye, aided by sketches on the blackboard, and present instrumental drawings of them at the next lecture. The same course is pursued with the instruction in Isometrical

perspective, and the oblique projections known as Mechanical and Military perspective, as also with Shades and Shadows.

The Mapping includes Platting, Topographical drawing, and Geodesic projection. A number of plaster models of ground afford exercises for the student in drawing contour lines and *hachures*, shading by vertical and oblique light, and applying conventional colours. To facilitate this, engraved outline maps, corresponding to the models, have been obtained in France for the practice of the student.

IV. *Measuring the quantity of the proposed works, and determining their cost*; i. e. MENSURATION and ESTIMATION.

The former of these is an application of geometry; and the latter a combination of this with experience. Both are illustrated by numerous examples.

V. *Marking out on the ground the lines of the intended operations and structures, and directing their execution*; i. e. FIELD-WORK and SUPERINTENDENCE.

The former of these includes the locating of roads, railroads, and canals, with their curves, staking out, &c., and setting out work for contractors and workmen. This is exemplified in the field. The latter involves a knowledge of construction, to be learned partly from instruction and partly from observation.

The preceding subjects are distributed over a course of instruction occupying two years, beginning about May 1st, and completed the last of March, in time for entering upon the field operations of the Spring. The student commencing it is expected to be familiar with Arithmetic, Algebra (through equations of the second degree), and Geometry, Plane and Solid. He should also have constructed the first seventy geometrical problems in Mahan's "Industrial Drawing," which are taught with additions, in the term preceding the beginning of this course. The subjects of the subsequent course are arranged in the order given below, so as to harmonize them with the terms of College,

and the seasons of the year, suitable to Field-work, or otherwise. The course is also so arranged and subdivided, that the more popular topics and the more specially technical ones come at different times; so that those students who desire merely a general knowledge of Civil Engineering as part of a liberal education, and those who wish to study it professionally, can each be suitably accommodated. The instruction is also given at different hours from those of the regular recitations, so as to prevent any interference, and to enable its special students to pursue collaterally such of the regular studies as they are found to require.

The Summer term (the College 3d term) begins about April 25th; the Fall term (College 1st term) about September 5th; and the Winter term (College 2d term) about January 5th; varying a few days according to the day of the month on which "Commencement" falls, it being always "the 4th Wednesday in July."

FIRST YEAR.

Summer Term.—LAND SURVEYING; with field work, plats and calculations. [*Gillespie's Land Surveying.*]
DESCRIPTIVE GEOMETRY; with Graphical Problems. [*Heather's Monge.*]
TRIGONOMETRY; Plane and Spherical. [*Davies' Legendre.*]

Fall Term.—LEVELLING; and TOPOGRAPHY. [*Lectures.*]
DRAUGHTING; by Plans, Elevations and Sections, or Perpendicular Projection. [*Mahan's Industrial Drawing.*]
ANALYTICAL GEOMETRY. [*Davies.*]
FRENCH.—Commenced.

Winter Term.—DRAUGHTING; by Oblique Projections and Perspective. [*Lectures.*]
MENSURATION of Engineering Structures, &c. [*Lectures.*]
STATICS AND DYNAMICS. [*Jackson's Mech's.*]

DIFF. AND INTEGRAL CALCULUS. [*Davies.*]

FRENCH.—Continued.

SECOND YEAR.

Summer Term.—HIGHER SURVEYING ; with Transit, Theodolite, Sextant, Plane Table, &c. [*Lectures.*]

ENGINEERING STATICS ; the strength of materials and the stability of structures. [*Lectures.*]

DRAUGHTING.—Continued. [*Lectures.*]

HYDROSTATICS ; Hydrodynamics, Pneumatics, Heat, and Steam. [*Jackson's Mechanics.*]

ANALYTICAL MECHANICS. [*Boucharlat.*]

Fall Term.—ROAD ENGINEERING ; the principles of the location and construction of common Roads and Railroads ; working Railroads with Locomotives, &c. ; with field practice in Curves, Grades and Cross Sections ; Calculations of Excavation and Embankment, &c. [*Gillespie's Road-Making, and Lectures.*]

ENGINEERING STATICS.—Cont'd. [*Lectures.*]

STEREOTOMY ; Applications of Descriptive Geometry to Stone-cutting, &c. [*Lectures.*]

GERMAN.—Commenced.

Winter Term.—GENERAL CONSTRUCTION ; Materials, Foundations, Masonry, Carpentry, &c. [*Mahan's Engineering.*]

BRIDGE ENGINEERING ; Plans and Calculations of the Forms and Dimensions of Bridges, of Wood, Iron and Stone. [*Lectures.*]

WATER ENGINEERING ; Canals, Water Supply, Drainage, River and Sea Coast Improvements, &c. [*Burnell, and Lectures.*]

GERMAN.—Continued. SPANISH.

Supplementary Lectures on Geodesy and Practical Astronomy ; Higher Descriptive Geometry (in connection with the

Olivier models) ; and Architecture ; are given in the following Summer term to the students who may still be resident.

The value of a thorough course of instruction on these subjects to the young man intending to adopt the profession of Civil Engineering, is self-evident, and will be most heartily acknowledged by the intelligent but uneducated Engineer who has felt how much he needed to know, and has discovered how little he really did know. The construction of the Public Works of this country has generally been directed by men of great natural ability, whose genius, experience and experiments have in some degree compensated for their want of previous preparation. They are well aware of their own deficiencies, and will be the first to confess how much their progress would have been facilitated, and their operations economized, if they had been able to profit by the teachings of science. It was estimated by the famous Vauban, that the instruction of the young Engineers of France by experience alone, added sixteen per cent. to the cost of the works on which they were engaged. With the practical character of the American mind, such a waste would be less, but still great.

The field for the Civil Engineer in this country is constantly enlarging. Our numerous Railroads are not a tithe of those which will eventually be constructed, as will appear if we compare our maps with those of old countries like England. The demand for new and more permanent Bridges will continue to increase. All our large towns will require supplies of pure Water. Most of our Rivers need the improvements in their navigation which Engineering can give. The increasing value of land near large cities will repay skilful and extensive Drainage of swamps, &c. Our large farms will in many ways be benefitted by the aid of the Engineer. The Sanitary reforms of cities will create new openings for him. Mines will give him other employment. All our States will eventually make elaborate Trigonometrical and Topographical Surveys of their surface. And the

general demand for his services must increase with the increasing wealth of the country.

To assist the young Engineer in preparing himself to meet this demand, the present course was established. It has been broadened and deepened in each succeeding year ; and its extent and minuteness of detail will be proportioned to the needs of those entering upon it. It is far from assuming to make an Engineer by mere study, even with the various practice which it also gives. Its leading object is two-fold : firstly, to familiarize the student with the use of instruments, and the routine of engineering operations as far as possible, and thus to prepare him for immediate usefulness ; and, secondly, to supply him with principles, formulas and data which will qualify him to determine the character, dimensions, etc., of engineering works requiring a knowledge of mathematical and engineering science. It does not propose to be a substitute for practice. Nothing can take the place of an actual experience in operations on a large scale ; or supply the peculiar knowledge only to be acquired by the daily inspection of works of masonry, etc. ; any more than any amount of mere practice can be a substitute for a thorough knowledge of the scientific principles which lie at the root of all practice. But the course aims at qualifying the student for profiting to the utmost by his subsequent practice, and turning it to the best account. The student who has gone through the complete course, is always advised then to take the lowest position in an Engineering Corps in the field, his advantage being that he is qualified, if he has been intelligent and diligent, with a little actual practice to mount rapidly to a high grade, as opportunities offer, and to sustain himself well in such a post, inasmuch as he has acquired much of the information needed by a Chief-Engineer, as well as by a Rodman.

At the beginning of the last term of the course, students who are candidates for a Diploma are required to undergo a written examination on the leading points of all their preceding studies.

Those who pass it satisfactorily receive a Diploma of " Graduate in Civil Engineering," and it is intended that this Diploma shall be a guarantee of more than average ability and industry. The others receive certificates proportioned to what they have done.

Students not candidates for a Diploma are allowed to take any portion of the Course which they are qualified to pursue with advantage. Since Railroads, Canals, Bridges, etc., are met with in all parts of our country, no liberal education can be considered complete unless it comprises a general knowledge of the principles on which these works are constructed, of the uses of their various parts, of the reasons for their peculiar arrangements, of the useful ends sought to be attained, and of the dangers to be guarded against. A distinguished writer even goes so far as to say, that " every roof, frame, bridge, oblique arch, machine, steam-boiler, locomotive, ought to be looked upon as a case to which every well educated man ought to be able to apply definite and certain principles, in order to judge of its structure and working."

The professional students of this course are not only permitted, but urged to take in connection with it, those College studies in the Belles-lettres, and in mental and moral science which their time will permit.

Students are admitted to the Civil Engineering course, in connection with such College studies as they may be found to require, on the same terms as to the regular College course, viz: \$19 per term for Tuition, Room-rent, etc. Board can be had from \$2.00 upwards. If further information is desired, address, for business matters, the Registrar of the College; and for inquiries respecting the studies, Prof. W. M. Gillespie.

Schenectady, April, 1857.

DEPARTMENT OF ANALYTICAL CHEMISTRY.

UNION COLLEGE, SCHENECTADY, N. Y.

This department is now under the direction of CHARLES F. CHANDLER, Ph. D., (Gottingen.)

THE LABORATORY.—Professor Joy was sent to Europe by the Trustees expressly to procure apparatus and plans for the Laboratory, for which his previous residence of four years in Berlin and Gottingen, as the pupil of ROSE and WOHLER, gave him peculiar facilities.

The Laboratory is constructed after plans furnished by Professor Lang, the architect of the famous Laboratories of Heidelberg and Carlsruhe, with such modifications as were suggested by Professors Bunsen and Weltzien. It is furnished with the best modern appliances for acquiring a thorough knowledge of Chemistry, and the applications of this science to Agriculture and the Arts.

The Students have the use of Superior Balances from Giessen and Berlin ; of a Schieck Microscope ; of an Eckling Air Pump, and of Graduated Instruments for Volumetric Analysis.

The Sand-bath arrangements and the Furnaces were copied from Liebig's new Laboratory in Munich, and enable the operator to work without danger from deleterious gases or acid fumes.

A Beindorf Apparatus, containing the usual Steam Drying Chests, Steam Digesters, and Distilling Apparatus, with numerous improvements, was manufactured by Murrle, in Pforzheim, expressly for the Laboratory.

All re-agents, apparatus and substances for investigation, are furnished from the Laboratory, and the Student replaces only such articles as are broken. Gold, Silver and Platinum Solutions must be purchased by the Student.

Each Student is furnished with a lock-up case and separate shelves for his re-agents. More advanced pupils, or Medical gentlemen, wishing to carry on investigations, can have the use of the private Laboratory of the Professor.

Students can enter at any period ; but they are advised to commence at the beginning of the College terms ; usually the first Friday in January and May, and the second Friday in September of each year.

Previous study of Chemistry is highly desirable, but not essential to admission.

The Laboratory fees (payable in advance) for instruction 5 days in the week are at the rate of \$4 per week ; for a less time in a proper ratio.

The cost of the Apparatus which each Student will be required to purchase, need not exceed \$10.00.

Hours of attendance from 9 o'clock A. M., until dusk.

THE PLAN OF STUDY.—Supposing the Student to be unacquainted with the re-actions of Chemical substances, a systematic course of Qualitative Analysis, or *Testing*, must first be undertaken. He is provided with samples of each base and acid singly, and practices the action of tests and of the blow-pipe upon them until the appearances prescribed become familiar.

Artificially prepared *mixtures* of different substances are then furnished, in which he has to detect and separate each constituent. These exercises proceed from the more simple to the most complex cases, and from the previous knowledge of the composition

of the materials a control is furnished over the accuracy of the results.

When the Student is able to identify any substance in a complicated mixture with ease and certainty, he proceeds to the Quantitative Determination of bodies. Much the same plan is still pursued. He takes carefully-weighed portions of pure compounds of *known composition*, and determines the amount of one or more of their constituents. He has thus an exact check on the value of his results, and his source of error being pointed out, he repeats the determination until it comes out sufficiently close. He thus proceeds through all the most important bases and acids separately, and afterwards mixes them in various proportions so as to form *quasi* minerals or soils, still retaining the advantage of a precise control over the accuracy of his results.

When he has in this manner acquired sufficient confidence in his skill, he can proceed to the actual Analysis of *Minerals, Soils, Waters, Manures, Plant-ashes, Technical or Pathological Products*, etc., according to his views or inclination. All kinds of auxiliary operations can be carried on as deemed advisable, simultaneously with the above; as Microscopic Manipulations—the trial of Manufacturing or Metallurgical Processes on the small scale—the Preparation of Re-agents, or rare Chemicals, etc.

SPECIAL APPLICATIONS.

Physicians will be afforded every opportunity for carrying out a series of observations, Chemical or Microscopical, and can be furnished with lock-up cases.

Students of Medicine can learn the latest methods of Zoo-chemical Analysis, especially as applied to the examination of Blood, Urine, Calculi and Urinary Deposits, with access to a first-class microscope.

Pharmaceutists will be taught how to detect impurities and adulterations in drugs and medicines.

Manufacturing Chemists will be taught how to estimate the

value of Bleaching Powders, Manganese, Soda-ash, Potashes, Vinegar, Pigments, Ore, Artificial Manures, Ammoniacal Salts, etc.

Students of Agriculture will learn to make Analyses of Soils, and to estimate the value of Manures ; they can also perform experiments on the College farm, according to the time at their disposal.

Mineralogists will have access to the College Cabinet, and can also take a full course with the blow-pipe, and in Qualitative and Quantitative Analysis.

Law Students can take a special course in that branch of Medical Jurisprudence which requires a knowledge of Chemistry.

For further information, apply to the REGISTRAR OF UNION COLLEGE, Schenectady, N. Y.

Schenectady, July 1, 1857.

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1857/58
3d term

SIXTY-THIRD
ANNUAL
CIRCULAR AND CATALOGUE
OF
UNION COLLEGE.
THIRD TERM, 1858.

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TRUSTEES.

HIS EXCELLENCY, JOHN A. KING, GOVERNOR—*Ex-officio*.

HON. HENRY R. SELDEN, LIEUT. GOVERNOR. “

HON. LYMAN TREMAINE, ATTORNEY GENERAL. “

HON. GIDEON J. TUCKER, SECRETARY OF STATE. “

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REV. LAURENS P. HICKOK, D. D., VICE-PRESIDENT,
And Professor of Mental and Moral Philosophy.

REV. ROBERT PROUDFIT, D. D.,
Emeritus Professor of Greek and Latin Languages.

TAYLER LEWIS, LL. D.,
Nott Professor, No. 1, of the Greek Language and Literature.

ISAAC W. JACKSON, LL. D.,
Nott Professor, No. 2, of Mathematics.

JOHN FOSTER, A. M.,
Professor of Natural Philosophy.

JONATHAN PEARSON, A. M.,
Professor of Natural History.

REV. JOHN NOTT, A. M.,
Assistant Professor of Rhetoric.

WILLIAM M. GILLESPIE, LL. D.,
Professor of Civil Engineering, and Adjunct Professor of Mathematics.

FACULTY.

5

REV. JOHN NEWMAN, A. M.,

Professor of the Latin Language and Literature.

ALEXANDER M. VEDDER, M. D.,

Professor of Anatomy and Physiology.

ELIAS PEISSNER, A. M., (OF MUNICH,)

Professor of the German Language and Literature, and Lecturer on Political Economy.

Nott Professor, No. 3, of Analytical Chemistry.

ALEXANDER J. THOMSON, A. M., Esq.,

Lecturer on Law.

NELSON MILLARD, A. M.,

Tutor.

DWIGHT K. BARTLETT, A. M.,

Tutor.

CHARLES F. CHANDLER, PH. D.,

Acting Professor of Analytical Chemistry.

JONATHAN PEARSON, A. M.,

Treasurer, Librarian, and Curator of the Museum.

GEORGE GILBERT, A. M.,

Tutor and Registrar.

CALENDAR—1858-9.

Third Term ends.....	Friday, July 23, 1858.
Phi Beta Kappa Meeting.....	Tuesday, “ 27, “
Alumni Meeting.....	Wednesday, “ 28, “
COMMENCEMENT.....	Thursday, “ 29, “
First Term begins.....	Friday, Sept. 10, “
“ ends	“ Dec. 3, “
Second Term begins	“ Jan. 7, 1859.
“ ends	“ April 1, “
Third Term begins	“ “ 29, “
“ ends	“ July 22, “
COMMENCEMENT, ...	Thursday, “ 28, “

INFORMATION.

I. COURSES OF STUDY.

THERE are three courses of study established in the institution—the Classical, the Scientific, and the University or Partial course. A three years' course for graduates is also in preparation.

The Classical course is the usual Baccalaureate course of the College, and remains unchanged, and the degrees conferred remain the same as is customary in American colleges.

In the Scientific course the modern languages are substituted in place of the ancient languages, and the amount of mathematical studies is increased. The degrees conferred remain unchanged; but the diploma given is in French.

In the University course students select such branches of study as they please, and receive a certificate indicating the particular studies they have pursued. This is in English.

There are also special courses of instruction in Civil Engineering and in Analytical Chemistry.

II. REQUIREMENTS FOR ADMISSION.

Candidates for admission must present testimonials of good moral character, and, if from another college, a letter of honorable dismissal or of special request.

Candidates for the Freshman Class, in the *Classical* course, must be *thoroughly* prepared in English Grammar; Arithmetic (Davies'

"University," or an equivalent;) Andrews & Stoddard's Latin Grammar; Cæsar's Commentaries, four books; Virgil's *Æneid*, six books, with the rules of Hexameter Verse; four Orations of Cicero; Sallust's *Catiline*; Bullions' Greek Grammar and Greek Reader. The whole, or a full equivalent, in both quantity and quality, will be strictly required. It is desirable that those intending to pursue the Classical course should enter at the commencement of the Freshman year.*

Candidates for the *Scientific* course may prosecute the studies of the Freshman year in the Union School connected with the College, or with any competent teacher; and will be examined for admission to the Sophomore year on English Grammar, Practical Arithmetic (Davies' "University"), Algebra (to n th root), Geometry (five books), and United States History.

Candidates for any other class will also be examined in all the studies previously pursued by said class, as shown in the following course of studies.

It is very important that candidates should be thoroughly prepared, especially in grammatical and elementary knowledge. Where they have more time than is requisite for such preparation, it is desirable, for obvious reasons, that they should not anticipate subjects in the College course, but apply themselves to other studies.

Students from other colleges cannot enter later than the beginning of the third term of the Senior year.

Examinations for admission take place in presence of three officers. The regular times for such examinations are the last two days of the week preceding Commencement, and the last two days of each vacation, (*viz.*, Thursday and Friday), at 10 o'clock A. M.

Students not candidates for a degree are examined only sufficiently to test their qualifications to pursue with advantage the course of study which they have in view.

* Teachers preparing students to enter College, are requested to notice that the above requirements for admission are more precisely specified than heretofore, and, having been reduced to the minimum quantity, a full compliance with them will hereafter be expected.

III. DEPARTMENTS OF INSTRUCTION.

1. THE GREEK LANGUAGE AND LITERATURE.

The course of instruction in this department extends regularly through the whole of the Freshman and Sophomore years, together with the first and third terms of the Junior. In the Senior, the subject is made a regular study during one term, and in another, some Greek author is read as a voluntary exercise, when time and circumstances permit. Lectures form the greater part of the instruction in the latter part of the course. There is a gradation of aims. The Freshman year is employed almost wholly in thorough grammatical drilling. In the Sophomore year the chief object is correct and elegant translation, in which much attention is paid to what may be called the laws of correct expression, or the transfer of idiom into idiom. A constant demand is, the best English for the best Greek. Thus progress is made in the knowledge of the capacities of our own tongue, whilst the power of the ancient language is shown in a way which can never be exhibited in the un-english verbal renderings that are so commonly permitted. In the Junior year, the same object is pursued, but more attention is given to the philosophy or poetry of the classic author, as a matter of general criticism. In the time devoted to Greek in the Senior year, the latter aim is made predominant.

By steadily pursuing this course, there is found to be a manifest improvement in each succeeding class. The standard of preparation is gradually raised, the valuable educational influence of the classics is secured for the whole class, whilst great pains are taken, especially in the latter part of the course, to arouse the enthusiasm of that smaller portion who may be expected to make the ancient languages and literature a special study in after life.

The reading of the Freshman year is confined mainly to Xenophon, Demosthenes, and Homer. The Sophomore year and part of the

Junior, are found, from good experience, to be most profitably occupied with the Greek Dramatic Poetry, whilst in the remainder of the course the Greek philosophy is made the chief object of attention. One idea is never lost sight of. It is the bearing of the ancient philosophy, poetry, and mythology, upon Revelation and the Christian theology. Especially in the Junior and Senior years, is this made a prominent thought, presented not only in lectures, but in constantly calling attention to everything by which it may be legitimately suggested.

The course of reading is frequently varied from that which is presented in the Catalogue, although the same general amount is required and the same general plan is pursued. As the instruction is in a high degree oral, bare text-books are preferred to editions with notes, although no objection is made to such helps when they can be obtained.

2. LATIN LANGUAGE AND LITERATURE.

The studies of this department embrace a select series of the Latin classics, accompanied by miscellaneous exercises extending through the Freshman and Sophomore years, and one term of the Junior year, and arranged as follows :

FRESHMAN YEAR.

First Term.—Livy ; Arnold's Latin Prose Composition.

Second Term.—Horace, Select Odes ; Latin Prosody.

Third Term.—Cicero de Officiis ; Arnold's Latin Prose Composition.

SOPHOMORE YEAR.

First Term.—Tacitus, Annals, or Germania and Agricola ; Arnold's Latin Prose Composition, 2d Part.

Second Term.—Juvenal and Terence ; Essays on Roman Manners and Customs.

Third Term.—Horace, Select Satires and Epistles ; Ramshorn's Latin Synonyms.

JUNIOR YEAR.

Second Term.—Cicero, Tusculan Questions ; Critical Study of Latin Particles and Subjunctive Mood.

Lectures, on Ancient Philosophy, Roman History and Roman Literature, are also occasionally delivered.

As books for reading and reference, Zumpt's and Andrews & Stoddard's Latin Grammars ; Schmitz's and Arnold's Histories of Rome ; Smith's Dictionary of Greek and Roman Antiquities ; Anthon's Classical Dictionary, and Findlay's Classical Atlas, or their equivalents, are deemed indispensable.

3. MODERN LANGUAGES.

The course of instruction in the modern languages includes oral and written exercises in translation and composition, accompanied by colloquial practice, and followed by lectures on the respective literatures.

The course is thus divided :

The German Language is taught as a regular daily study of the Scientific course during three successive terms, beginning with the First Term Junior. The text-books used are Peissner's Grammar, with exercises and reading lessons ; and his Historical Sketch and Manual of German Literature.

The French Language is made a regular daily study of the Scientific course during two successive terms, beginning with the First Term Sophomore. The text-books used are Longfellow's Grammar, and Chapsal's *Literature Française*. A voluntary class (advanced) is formed in the following term, in which *Corneille*, *Racine*, and *Molière*, or other classics, are used as text-books.

The Spanish Language is a voluntary study in the Second Term Senior. The text-books used are Schele de Vere's Grammar, and Velasquez's Reader. An advanced class may pursue this study another term, *Seleccion de Obras Dramaticas*, by Sales, being the text-book.

The Italian Language is taught as a voluntary study in the Third Term Sophomore. The text-books are Monti's Grammar and Foresti's Reader. An advanced class may pursue the study of Italian another term, reading extracts from *Dante*, *Petrarca*, and other classics.

The hours for the recitations in the modern languages are so arranged that they may be taken by regular classical students.

4. MATHEMATICS AND ASTRONOMY.

The studies of this department are arranged as follows :

FRESHMAN YEAR.

First Term.—Algebra, to square root.—(Bourdon.)

Second Term.—Algebra, to n th root.—(Bourdon.)

Third Term.—Geometry—Plane ; five books.—(Legendre.)

SOPHOMORE YEAR.

First Term.—Geometry—Solid ; four books.—(Legendre.)

Second Term.—Algebra, completed.—(Bourdon.)

Third Term.—Trigonometry—Plane and Spherical.—(Legendre.)

Descriptive Geometry.—(Monge.)

JUNIOR YEAR.

First Term.—Conic Sections.—(Jackson.)

Analytical Geometry.—(Davies.)

Second Term.—Differential and Integral Calculus.—(Davies.)

Third Term.—Analytical Mechanics.—(Boucharlat.)

SENIOR YEAR.

Second Term.—Astronomy.—(Gummere.)

5. CIVIL ENGINEERING.

This department was founded in 1845. Its object is to give its students such instruction in the theory and practice of Civil Engineering, as to qualify them for immediate usefulness in the field and office in a subordinate capacity, and at the same time to fit them to fill satisfactorily the higher positions in the profession after a moderate amount of experience in the routine of practice. The course of instruction aims to effect this by constant exercise in mechanical draughting, instrumental fieldwork and numerical calculation, combined with the study of text-books, and lectures on the numerous subjects where books are wanting. Its facilities have recently been greatly increased by

the acquisition of numerous models and instruments from the best European sources.*

The Civil Engineering Course can be taken by persons wishing to pursue it specially, by their entering as "University students," taking such collateral regular College studies as may be desirable. It is completed in two years, beginning with the Summer term, or College "Third term," about May 1st, and ending the last week in March, in time for its students to join parties then beginning the field-work of the season. The fees are, for the present, the same as those of the ordinary College course.

For commencing the Civil Engineering course, (May 1st,) the requirements are Arithmetic, Algebra, Geometry, (plane and solid,) and the execution of the first seventy problems of Mahan's "Industrial Drawing." These last are taught, with additions, in the preceding Term, to those then present. Readiness in the common operations of Arithmetic, particularly mental calculation, and perfect familiarity with the elements of Algebra and Geometry, are indispensable preliminaries for commencing the course with advantage. Any portions of it may be taken separately by those qualified to pursue them profitably.

The subjects of the course are arranged in the order given below, so as to harmonize them with the Terms of College, and the seasons of the year suitable to Field-work or otherwise. The course is also so arranged and subdivided, that the more popular topics and the more specially technical ones come at different times; so that those students who desire merely a general knowledge of Civil Engineering as a part of a liberal education, and those who wish to study it professionally, can each be suitably accommodated. The instruction is also given at different hours from those of the regular recitations, so as to prevent any interference, and to enable its special students to pursue collaterally such of the regular studies as they are found to require.

* Among them are these: a complete set (fifty) of the beautiful *Olivier* models of Descriptive Geometry, showing the generations, transformations and intersections of "Rule-surfaces"; the best Stone-cutting models (twenty) of *L'Ecole Polytechnique*; the Topographical models of M. Bardin; Mr. Doyne's dynamometer Bridge-strain model; the levels of Egault, Troughton, &c.

FIRST YEAR.

Summer Term.—LAND SURVEYING; (by chain and compass) with field-work, plats and calculations.

DESCRIPTIVE GEOMETRY; with Graphical Problems.

TRIGONOMETRY; Plane and Spherical.

Fall Term.—LEVELLING; with application to Topography, &c.

DRAUGHTING, by Plans, Elevations and Sections.

ANALYTICAL GEOMETRY.

Winter Term.—DRAUGHTING; by Oblique Projections, &c.

MENSURATION of Engineering Structures, &c.

STATICS AND DYNAMICS.

DIFFERENTIAL AND INTEGRAL CALCULUS.

SECOND YEAR.

Summer Term.—HIGHER SURVEYING; with Transit, Theodolite, Sextant, &c.

ENGINEERING STATICS; the stability of structures, and the strength of their materials.

DRAUGHTING, continued.

HYDRAULICS, Pneumatics, Heat, Steam, &c.

ANALYTICAL MECHANICS.

Fall Term.—ROAD ENGINEERING; the principles of the location and construction of common Roads and Railroads; with field practice in Curves, Grades and Cross Sections; Calculation of Excavation, Embank't., &c.

ENGINEERING STATICS; continued.

STEREOTOMY; Applications of Descriptive Geometry to Stone-cutting, &c.

Winter Term.—GENERAL CONSTRUCTION; Materials, Foundations, Masonry, Carpentry, &c.

BRIDGE ENGINEERING; Plans and Calculations of the Forms and Dimensions of Bridges of Wood, Iron, and Stone.

WATER ENGINEERING; Canals, Water Supply, Drainage, River and Sea Coast Improvements, &c.

Supplementary Lectures on Geodesy and Practical Astronomy, Higher Descriptive Geometry, and Architecture, are given in the following Summer Term to the students who may still be resident.

The recent extension of this course demands so much time and study from those who take it, that students of the complete College "Scientific Course" can not pursue both at the same time. They can, however, with extra labor, combine the two by making them "overlap," distributing the extra studies of the first four terms of the above course over the last seven terms of the regular course, and then completing this course in two terms after graduating. Their extra studies would then be taken in this order: *Sophomore 3d term*, Descriptive Geometry; *Junior 1st term*, Draughting; *Jun. 2d term*, The Calculus and Draughting; *Jun. 3d term*, Analytical Mechanics and Draughting; *Senior 1st term*, Levelling; *Sen. 2d term*, Engineering Mensuration; *Sen. 3d term*, Higher Surveying and Engineering Statics; and, in the two terms after graduating, the subjects noted in the last two terms above.

Students of only the special Engineering Course are earnestly advised, if their bodily and mental strength will permit, to combine with it the modern languages and the physical sciences of the Regular Course. But if their time will allow, their best plan is to enter as "Scientific students," and pursue the complete course indicated in the preceding paragraph.

At the beginning of the last term of the course, students who are candidates for a diploma are required to undergo a written examination on the leading points of all their preceding studies. Those who pass it satisfactorily and complete similarly the remainder of the course, receive a diploma of "Graduate in Civil Engineering," and it is intended that this diploma shall be a guarantee of more than average ability and industry. The others receive certificates proportioned to what they have done.

6. NATURAL PHILOSOPHY.

The instruction in this department extends through three terms, commencing with the second term of the Junior year. Students, both of the Classical and Scientific courses, and those in the Engineering department, recite in two divisions, one hour being given to each, five days in the week, and the subjects succeeding each other in the following order :

JUNIOR YEAR.

Second Term.—Statics and Dynamics.—(Jackson.)

Third Term.—Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam.—(Jackson.)

SENIOR YEAR.

First Term.—Optics.—(Jackson.)

Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism.—(Foster.)

To secure at once precision and fullness, the instruction is mainly given from recently prepared text books. Frequent lectures are however delivered, either to furnish illustration and proof of principles by experiment, or to amplify particular subjects. Thus, after the completion of Statics and Dynamics, several lectures are devoted to mechanical “work,” in order that not only the construction and theory, but modes of determining the *efficiency* of the various hydraulic and pneumatic machines may be understood. All lectures are required to be written out by the students in full from the notes, and submitted for inspection. Numerous problems are also given on all the subjects, and are mostly so constructed that the calculated results may be verified by experiments before the class. Both to test the accuracy of the knowledge gained, and to ensure its ready command, several written examinations are required in each term, usually near its close.

A class of those wishing further knowledge of Mechanism and of Mechanical Work, read (in the original) the *Mécanique Appliquée* of Sonnet. To learn the application of the Differential and Integral Calculus to Mechanics, the students of the Scientific and Engineering

courses recite daily, during the Third Term Senior, select portions of Boucharlat's *Mechanics*.

In most of the branches included in this department the apparatus is sufficient for very complete experimental illustrations.

7. CHEMISTRY.

In the *Undergraduates'* department the instruction in Chemistry continues through the First and Second Terms of the Senior year, and is fully illustrated by experiments, and attended with thorough reviews and examinations. In the Third Term are also given Lectures on the applications of Chemistry to Agriculture, &c. More advanced students are permitted to enter the Analytical laboratory, on payment of a fee proportionate to the time which they devote to the study. An accurate record of the attendance and proficiency of such students will be kept and reported to the Registrar.

The Analytical Laboratory is furnished with the best modern appliances for acquiring a thorough knowledge of Chemistry, and the application of this science to Agriculture and the Arts.

It will be open to its special students every week day, except Saturdays, from 9 A. M. to 5 P. M., at a charge of \$3 a week,—a reasonable deduction being made in favor of those who can devote only a portion of their time to this study. The cost of the apparatus which each student will be required to purchase, need not exceed \$15. Students can enter at any period, but they are advised to commence at the beginning of the College terms. Previous study of Chemistry is highly desirable, but not essential to admission.

The plan of study depends upon the object of the student, his previous knowledge, and the time at his disposal. It is designed, however, to give a complete professional education in Chemistry to such as may desire it.

In the Analytical department the following works are used as text books and for reference: Will's *Qualitative Analysis*; Fresenius' *An-*

alytical Chemistry ; Berzelius on the Blowpipe ; Elderhorst's Manual of Blowpipe Analysis ; Wöhler's Handbook of Inorganic Analysis ; Regnault's Elements of Chemistry ; Gmelins' Handbook of Chemistry.

For fuller circulars of this department, address Dr. C. F. Chandler.

8. RHETORIC AND CRITICISM.

In this department there are daily recitations during the Third Term Sophomore and First and Second Terms Junior. One day in each week is devoted to the delivery of original declamations. At each recitation two or more essays are required to be read. Attention is given to the practical application of the rules taught, and the students are frequently exercised in the correction of passages which violate the principles of their daily study. Lectures on various subjects connected with this department are also occasionally delivered.

In the First and Second Terms of the Senior year, Kames' "Elements of Criticism" is made the basis of Lectures by the President. His Lectures are continued in the Third Term Senior.

9. POLITICAL ECONOMY.

A course of *Lectures* on this subject will be delivered in the Third Term of the Senior year.

10. MENTAL AND MORAL SCIENCE.

The order of instruction pursued in these studies is given in the text-books used ; but a wide margin is filled in by Lectures, and oral comments, explanations and illustrations. The end sought to be secured is a systematic and not merely elementary or fragmentary apprehension of the subjects in hand, each part having its relation to a whole, and its connections and place in the whole being necessary to be apprehended in order to any adequate knowledge of the fact itself.

The student is not only examined from the text-book, but leading questions are put as the lesson proceeds, designed to bring out his own powers, and to waken individual thought and independent reflection. The class are all required to write on themes furnished in the order of the course, and given out by the teacher to separate divisions successively. It is made the design of this composition to secure correct and clear thought, expressed distinctly and definitely, and to keep the attention precisely to the point while giving completeness to the whole discussion, with less regard in this exercise to rhetorical embellishment. Other authors are referred to as desirable for the student to read as opportunity may be afforded, and his attention is directed to such as treat on the same or collateral topics. Different views and theories are noticed and examined as the course proceeds, and the whole ground of investigation on the topic in hand, is laid open before the class as completely as may be. The constant aim is to cultivate the habit of manly and independent though careful and patient reflection.

MENTAL PHILOSOPHY (Hickok's) is commenced in the Third Term of the Junior year, and concluded in the First Term Senior. MORAL PHILOSOPHY (Hickok's) is commenced in the same term and concluded in the next.

A synoptical view of the preceding departments of instruction will be found on the four following pages.

COURSE OF STUDIES.

CLASSICAL COURSE.

FRESHMAN CLASS.

FIRST TERM:

Livy,—Three Books, ...	<i>Lincoln.</i>
Xenophon's Anabasis,—Two Books, ...	<i>Owen.</i>
Algebra, (to square root,)	<i>Bourdon.</i>

SECOND TERM.

Horace,—Three Books of Odes, Prosody, ...	<i>Lincoln.</i>
Xenophon,—Memorabilia.	
Algebra, (to n th root,)	<i>Bourdon.</i>

THIRD TERM.

Cicero de Officiis,—Two Books, ...	<i>Thatcher.</i>
Homer—Iliad,—Four Books, ...	<i>Owen.</i>
Geometry—Plane,—Five Books, ...	<i>Legendre.</i>
Throughout Freshman year, Exercises in Latin and Greek Composition, ...	<i>Arnold.</i>

SOPHOMORE CLASS.

FIRST TERM.

Tacitus—History,—Two Books ; or, Germania and Agricola.	
Homer—Odyssey,—Six Books, ...	<i>Owen.</i>
Geometry—Solid,—Four Books, ...	<i>Legendre.</i>

SECOND TERM.

Juvenal, (1st, 3d and 10th,) and Terence, (one.)	
Euripides,—One or Two Dramas.	
Algebra, (completed,)	<i>Bourdon.</i>

THIRD TERM.

Rhetoric, Composition and Declamation, ...	<i>Blair.</i>
Euripides,—One or Two Dramas.	
Trigonometry,—Plane and Spherical, ...	<i>Legendre.</i>
Horace—Satires and Epistles.—(Voluntary.)	

Throughout Sophomore year, Exercises in translating Greek into Latin.

COURSE OF STUDIES.

SCIENTIFIC COURSE.

Candidates for the regular Scientific Course may prosecute the studies of the Freshman year in the "Union School" connected with the College, or with any competent Teacher, and for admission to the Sophomore year will be examined on English Grammar, Practical Arithmetic (Davies' "University"), Algebra—(to n th root), Geometry—(five books), and United States History.

SOPHOMORE CLASS.

FIRST TERM.

French, (Grammar,)	<i>Longfellow.</i>
History, ...	<i>Guizot.</i>
Geometry—Solid,—Four Books, ...	<i>Legendre.</i>

SECOND TERM.

French, (Reader,)	<i>Chapsal.</i>
Geometrical Draughting, ...	<i>Mahan.</i>
Algebra, (completed,)	<i>Bourdon.</i>

THIRD TERM.

Rhetoric, Composition and Declamation, ...	<i>Blair.</i>
Land Surveying, (Parts 1, 2, 3,)	<i>Gillespie.</i>
Trigonometry,—Plane and Spherical, ...	<i>Legendre.</i>
Descriptive Geometry.—(Voluntary,)	<i>Monge.</i>
French,—(Voluntary,) <i>Moliere</i> or <i>Racine</i> . Italian—(Voluntary,)	<i>Monti.</i>
Botany—(Voluntary,)	<i>Gray.</i>

CLASSICAL COURSE.

JUNIOR CLASS.

FIRST TERM.

Sophocles,—Two Dramas.

Rhetoric, Composition and Declamation, (continued,) *Blair.*Conic Sections, *Jackson* ; or, Analytical Geometry, ... *Davies.*

SECOND TERM.

Cicero—Tusculans,—Three Books.

Rhetoric, (continued.)—*Lectures.*Statics and Dynamics, ... *Jackson.*

THIRD TERM.

Mental Philosophy and Logic, ... *Hickok.*

Plato,—Phædon, or Gorgias.

Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam, ... *Jackson.*

SENIOR CLASS.

FIRST TERM.

Optics, ... *Jackson.*Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism, ... *Foster.*Mental Philosophy, (concluded,) and Moral Philosophy, (commenced,) *Hickok.*Criticism, ... *Kames.*Chemistry, ... *Fownes.*Plato contra Atheos,—(Voluntary,) *Lewis.*

SECOND TERM.

Astronomy, ... *Gummere.*Aristophanes—Birds or Clouds, ... *Fellon.*Moral Philosophy, (concluded,) *Hickok.*Criticism, (concluded,) *Kames.*Chemistry, ... *Fownes.*

THIRD TERM.

National and Constitutional Law, ... *Kent.*Anatomy and Physiology,—*Lectures.**Lectures on Literature, Chemistry, Political Economy, Architecture, &c.*

SCIENTIFIC COURSE.

JUNIOR CLASS.

FIRST TERM.

German, (Grammar,).....	<i>Peissner.</i>
Rhetoric, Composition and Declamation, (continued,)	<i>Blair.</i>
Conic Sections, <i>Jackson</i> ; or, Analytical Geometry, ...	<i>Davies.</i>
Draughting, (continued.)—(Voluntary,)	<i>Mahan.</i>

SECOND TERM.

German, (Reader,).....	<i>Peissner.</i>
Rhetoric, (continued.)— <i>Lectures.</i>	
Statics and Dynamics,.....	<i>Jackson.</i>
Differential and Integral Calculus.—(Voluntary,)	<i>Davies.</i>
Draughting, (continued.)—(Vol'y.)— <i>Lectures.</i> Applied Mechanics.—(Vol'y.)	<i>Sonnel.</i>

THIRD TERM.

Mental Philosophy and Logic,.....	<i>Hickok.</i>
German, (Literature,).....	<i>Peissner.</i>
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam,.....	<i>Jackson.</i>
Analytical Mechanics.—(Vol'y.) <i>Boucharlat.</i> Applied Mech's.—(Vol'y.)	<i>Lectures.</i>
Draughting, (continued.)—(Voluntary,)	<i>Mahan.</i>

SENIOR CLASS.

FIRST TERM.

Optics,.....	<i>Jackson.</i>
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism,.....	<i>Foster.</i>
Mental Philosophy, (concluded,) and Moral Philosophy, (commenced,)	<i>Hickok.</i>
Criticism,.....	<i>Kames.</i>
Chemistry, ...	<i>Fownes.</i>
Spanish.—(Voluntary,) <i>Schele de Vere.</i> Geology,—(Voluntary,)	<i>Hitchcock.</i>
Levelling and Topography.—(Voluntary.)— <i>Lectures.</i>	

SECOND TERM.

Astronomy,.....	<i>Gummere.</i>
Moral Philosophy, (concluded,)	<i>Hickok.</i>
Criticism, (concluded,)	<i>Kames.</i>
Chemistry,.....	<i>Fownes.</i>
Engineering Mensuration.—(Voluntary.)— <i>Lectures.</i>	

THIRD TERM.

National and Constitutional Law,.....	<i>Kent.</i>
Anatomy and Physiology,— <i>Lectures.</i>	
<i>Lectures</i> on Literature, Chemistry, Political Economy, Architecture, &c.	
Higher Surveying and Engineering Statics.—(Voluntary.)— <i>Lectures.</i>	

☞ A complete list of the studies of the Civil Engineering Course (which continues two terms longer) is given on page 14.

IV. MISCELLANEOUS INFORMATION.

1. **PAYMENTS AND EXPENSES.**—The College Bills are made out three times a year, and must be paid in advance. Students, unless from another College, pay for entrance into the Freshman Class, \$5 ; into the Sophomore Class, \$7 ; into the Junior Class, \$9 ; into the Senior Class, \$12. No retrospective expense is incurred by entering in advance.

The Registrar acts, without charge, as fiscal guardian for all students who deposit funds in his hands.

The College Bills for Tuition, Room-rent, &c., are \$20 per term. When the College rooms are filled, \$3 per term is deducted from the bills of the students who are thereby obliged to room elsewhere ; otherwise no deduction is made. Board can be had at the Hall for \$2 to \$2.50 per week, according to the price of provisions. Fuel and lights about \$10 per year. Washing \$3 per term. Furniture can be bought, and resold on leaving, or hired of the College servants.

Young men in straitened circumstances and of good character, on presenting certificates to that effect, are assisted more or less by the Trustees of the College, as long as they study and conduct in a satisfactory manner. The whole expense for tuition, board, fuel, lights, etc., of students so assisted, will not, where economy is used, exceed from \$120 to \$140 per annum.

2. **RESIDENCE AND DISCIPLINE.**—Students are expected to reside in the main buildings, which are occupied by the President and Professors and their respective families. No student can reside elsewhere without special permission.

The discipline of the institution is moral and parental. Disgraceful punishments are not inflicted ; but no young man who indulges in gaming, intemperance, or other vice, who is absent from his room at night, or who habitually neglects his studies, can be allowed to remain.

An account of the delinquencies of every student, and of his daily attendance, conduct and scholarship, is kept by the Registrar. The result, determining his place on the Merit Roll, is reported at the close of each term, or more frequently, to his parent or guardian.

Every student is required to return punctually at the opening of each term and report himself at the Registrar's office ; and till so reported will be considered as absent, and so marked on his bill. A similar report, and for the same reason, is required after any temporary absence from sickness or by permission.

3. FRESHMAN SCHOLARSHIPS.—*Prize Scholarships* have been founded by the President of the College, to be awarded to candidates who shall severally pass such thorough examinations as shall entitle them to the distinction. The incumbents of these scholarships will receive a credit equal to their term bill and ten dollars in cash for the first term, the same to be continued each term thereafter, during the entire collegiate course, provided they shall maintain their standing in their class : and provided also, they shall continue to comply with the rules prescribed by the founder of the scholarships ; among which is the pledge on the part of each, that he will neither use intoxicating liquor as a beverage, nor tobacco in any of its forms, so long as he shall continue to receive the avails of the scholarship which has been awarded to him.

4. THE BLATCHFORD ORATORICAL MEDALS.—R. M. Blatchford, Esq., has recently founded an Oratorical Prize, consisting of two Gold Medals of the value of the income of \$1,000, to be given to the two members of the graduating class who shall deliver the best orations, "regard being had alike to their elevated and classical character, and to their graceful and effective delivery." Accordingly, two medals will be awarded, one of the value of \$40 to the best written and spoken oration, and one of the value of \$30 to the second best ; to be determined by a committee appointed for that purpose, their award to be announced to the audience at the close of the exercises.

5. VACATIONS.—There are three vacations annually ; one of six weeks immediately after Commencement, which is on the Thursday following the 4th Wednesday of July ; one of four or five weeks from the first of December, and one in April. Students are expected to return to their friends during vacations.

NOTE.

A Catalogue will be published each Term.

Students pass one Term, at least, before Matriculation, and more, unless papers, scholarship and conduct are entirely satisfactory.

C Classical Students.

S Scientific Students.

U University Students.

z Candidates for Matriculation.

‡ Candidates Matriculated, subject to conditions.

a Attendance not satisfactory.

c Conduct “ “

n Absent during the Term, or from Examination—to be hereafter examined.

— Deficient in one study at Examination.

* Dead.

† Left College.

N—North College.

S—South College.

N Colon.—North Colonnade.

S Colon.—South Colonnade.

N H—North Hall.

SENIOR CLASS.

	NAMES.	RESIDENCES.	ROOMS.
nC	Oliver O. Alexander,	<i>Schenectady.</i>	
†C	A. G. S. Allis,	<i>Syracuse.</i>	
C	Allard Anthony,	<i>Fishkill,</i>	27 S
S	S. Savil Bass,	<i>Cowlesville.</i>	
C	Clarence S. Bate,	<i>Louisville, Ky.</i>	
†U	Erastus D. Benedict,	<i>Lisle.</i>	
C	Ira G. Bidwell,	<i>Willington, Conn.</i>	
S	Alonzo C. Bigelow,	<i>Bloomfield, Me.,</i>	25 N
U	William H. Bigelow,	<i>Bloomfield, Me.</i>	
C	Dodge P. Blackstone,	<i>Washington Mills.</i>	
C	Emmett Blair,	<i>Broadalbin,</i>	4 N
U	James H. Bogart,	<i>Schenectady.</i>	
C	Rodman W. Bosworth,	<i>Cambridge,</i>	27 S
C	George William Boyd,	<i>New-York,</i>	34 State-st.
C	Jesse Bradford,	<i>Amherst, Mass.</i>	
†U	Arnold B. Briggs,	<i>Fairhaven, Vt.</i>	
U	Thomas B. Brooks,	<i>Munroe,</i>	12 Lafayette-st.
C	Sidney R. Burnap,	<i>Charleston,</i>	33 N
†C	Henry A. Buttz,	<i>Coolbaugh, Penn.</i>	
*U	Colin Campbell,	<i>Cherry Valley.</i>	
†C	Amos Case,	<i>Sodus.</i>	
C	William R. Chase,	<i>Andover, Vt.,</i>	13 S
†U	Nathaniel F. Cheesman,	<i>Clinton.</i>	
C	Charles W. Clark,	<i>Hamilton,</i>	22 Smith-st.

	NAMES.	RESIDENCES.	ROOMS.
C	George W. Colman,	<i>Schenectady,</i>	10 S
C	Robert S. Coleman,	<i>Sandy Hill,</i>	29 S
S	Leroy C. Cooley,	<i>Point Peninsular,</i>	15 Ostrander's.
C	Thomas Corbett,	<i>Albany,</i>	4 N
†S	Nathan S. Cornell,	<i>Jonesville.</i>	
†C	James A. Cowles,	<i>Oakfield.</i>	
†C	John P. Cowles,	<i>Durham.</i>	
†S	William C. Crafts,	<i>Cherry Valley.</i>	
†C	Warner Craig,	<i>Northumberland.</i>	
nC	Oscar H. Curtis,	<i>Norwich.</i>	
C	Smith Curtis,	<i>Sherburne,</i>	20 Ostrander's.
†C	Horace M. Dake,	<i>Marion, Ill.</i>	
S	Anson J. Daniels,	<i>Vesper,</i>	110 Liberty-st.
C	John W. Davies,	<i>Poughkeepsie,</i>	Swart's, Union-st.
†C	Ephraim J. Dean,	<i>Cazenovia.</i>	
C	Rodney Dennis,	<i>Jasper.</i>	
S	Edmund H. Dewey,	<i>Ames,</i>	16 S
†U	Charles T. Dix,	<i>New-York.</i>	
†C	William A. Donaldson,	<i>Wellsborough, Penn.</i>	
†S	William S. Dunn,	<i>Nyack Turnpike.</i>	
C	Peter W. Emens,	<i>Romulus.</i>	
C	Jacob H. Enders,	<i>Fort Hunter,</i>	32 N
C	Charles D. Flagler,	<i>Lansingburgh.</i>	40 S
nC	Richmond Fisk, Jun.,	<i>Hoosick Falls.</i>	
C	Israel O. Foote,	<i>Sherburne.</i>	
U	Henry W. Fowler,	<i>Baton Rouge, La.</i>	
†C	Truman K. Fuller,	<i>Vesper.</i>	
†C	William H. Gardner,	<i>Walworth.</i>	

SENIOR CLASS.

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	NAMES.	RESIDENCES.	ROOMS.
†C	Robert L. Garrettson,	<i>Rhinebeck.</i>	
C	Archibald George,	<i>Mayfield,</i>	59 Jay-st.
C	Hiram J. Gordon,	<i>Charleston,</i>	198 Union-st.
C	Joseph B. Graham,	<i>Schenectady,</i>	White's, Union-st.
nC	Jeremiah Greene,	<i>Sodus.</i>	
C	Richard L. Hand,	<i>Elizabethtown,</i>	21 S
S	Mark D. Hanover,	<i>Wilbraham, Mass.</i>	
C	Arthur Harlow,	<i>Scotchtown.</i>	
C	Henry L. Harter,	<i>Jordanville.</i>	
†C	George C. Hazelton,	<i>Chester, N. H.</i>	
C	John L. Herford,	<i>Mackinaw, Ill.,</i>	40 S
†C	Lemuel T. Heritage,	<i>Shiloh, N. J.</i>	
†U	Don Alonzo Hulett,	<i>Heuvelton.</i>	
C	William A. Jackson,	<i>Hamptonburgh,</i>	43 N
C	William M. Johnson,	<i>Cambridge.</i>	
†S	John Kelly,	<i>Greene.</i>	
C	Henry N. Kellogg,	<i>Shoreham, Vt.</i>	
C	Isaac H. Kirby,	<i>Roslyn,</i>	38 N
†U	Frank Krause,	<i>Mansfield, O.</i>	
S	John R. Lambson,	<i>Newcastle, Del.</i>	
C	John Laning,	<i>Wilkesbarre, Penn.</i>	
S	Charles D. Lawton,	<i>Auburn,</i>	33 N
C	John H. Leggett,	<i>Stillwater,</i>	8 Ostrander's.
C	Daniel K. Leitch,	<i>Skeneateles,</i>	32 N
C	C. Southworth Lincoln,	<i>South Bristol,</i>	4 S
S	Alonzo S. Livermore,	<i>Sunbury, Penn.,</i>	16 S

	NAMES.	RESIDENCES.	ROOMS.
U	Daniel B. Lowe,	<i>Williamsburgh, Miss.</i>	
*S	S. Baldwin Ludlow, Jun.,	<i>Oswego.</i>	
C	William Lusk,	<i>Fountain Prairie, Wis.</i>	
†C	Alexander B. McClellan,	<i>Cambridge.</i>	
†S	Girard L. McKenzie,	<i>Boonton, N. J.</i>	
C	John K. McLean,	<i>Greenwich,</i>	25 S
†U	George R. McRee,	<i>Greenville, Ala.</i>	
nS	Silas C. Mason,	<i>Beekmantown.</i>	
S	Paul Henri Mayor,	<i>Berkshire.</i>	
†C	John A. Maxwell,	<i>New-York.</i>	
U	Lebbeus H. Mitchell,	<i>Parishville.</i>	
†C	Frederick M. Monteith,	<i>Broadalbin.</i>	
*	Michael Mullin,	<i>County Derry, Ireland.</i>	
C	John T. Mygatt,	<i>Oxford,</i>	218 State-st.
S	Luman P. Norton,	<i>Bennington, Vt.,</i>	26 Lafayette-st.
S	Lafayette F. Olney,	<i>Hecla Works.</i>	
†U	Thomas A. E. O'Niel,	<i>Duanesburgh.</i>	
†S	David H. Ostrom,	<i>Schenectady.</i>	
S	Sherman Page,	<i>Cambridge, Vt.,</i>	142 Union-st.
C	Robert T. Paine, Jun.	<i>Jordan,</i>	13 S
C	Edwin R. Paynter,	<i>Drawbridge, Del.</i>	
C	John H. H. Paynter,	<i>Drawbridge, Del.</i>	
C	Elhanan V. Peterson,	<i>Lodi,</i>	23 N
C	Frederick W. Pike,	<i>Mercer, Mo.</i>	
†C	John J. Pinkerton,	<i>Downington, Penn.</i>	
†C	A. Deitweiler Price,	<i>Pottstown, Penn.</i>	

SENIOR CLASS.

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NAMES.	RESIDENCES.	ROOMS.
<i>nC</i> J. Urner Price,	<i>Pottstown, Penn.</i>	
<i>U</i> George A. Putman,	<i>Dunbarton, N. H.</i>	
<i>C</i> Henry N. Raymond,	<i>Cleveland, O.,</i>	<i>Lafayette-st.</i>
† <i>U</i> Joseph W. Reed,	<i>South Argyle.</i>	
<i>nS</i> Maxwell B. Richardson,	<i>Oswego,</i>	25 S
<i>S</i> Charles J. Robinson,	<i>Holley,</i>	30 S
<i>C</i> Thomas A. Sanson,	<i>Princeton, Lib. & Lafayette-st.</i>	
<i>C</i> William H. Schuyler,	<i>Schenectady,</i>	140 Union-st.
<i>C</i> Frederick Scoville,	<i>Paris, Mrs. Fonda's, Lafayette-st.</i>	
† <i>C</i> William Settle, Jun.,	<i>Johnstown.</i>	
<i>C</i> Charles P. Shaw,	<i>Jay,</i>	11 N
<i>C</i> John P. Shumway,	<i>Baldwinsville.</i>	
<i>C</i> William H. Silvernail,	<i>Chatham.</i>	
<i>S</i> Alexander Simplot,	<i>DuBuque, Iowa,</i>	7 Franklin-st.
† <i>U</i> A. Hermance Smith,	<i>Charlton.</i>	
† <i>U</i> George D. M. Sterritt,	<i>Watertown.</i>	
<i>S</i> Edwin A. Strong,	<i>Otisco,</i>	110 Liberty-st.
<i>C</i> Josiah R. Sypher,	<i>Liverpool, Penn.,</i>	41 S
<i>C</i> John C. Taylor,	<i>Penn Yan,</i>	39 N
<i>U</i> Charles E. Thompson,	<i>Deposit.</i>	
<i>C</i> William Thompson,	<i>Poughkeepsie.</i>	
<i>U</i> Joseph Thyne,	<i>Johnstown.</i>	
<i>C</i> Abram W. Trueblood,	<i>Salem, Ind.,</i>	94 Liberty-st.
<i>S</i> James R. Tryon,	<i>Coxsackie,</i>	35 N
† <i>U</i> Theodore F. Vail,	<i>Litchfield, Conn.</i>	
<i>C</i> Francis V. Van Vranken,	<i>Princeton, Lib. & Lafayette-st.</i>	

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> James S. Walker,	<i>New-Concord, O.,</i>	107 Union-st.
† <i>C</i> William P. Warner,	<i>Nunda.</i>	
† <i>U</i> Frederick A. Watrous,	<i>Galveston, Texas.</i>	
<i>C</i> Jacob H. Weber,	<i>Herkimer.</i>	
† <i>U</i> James Westervelt,	<i>New-York.</i>	
<i>S</i> Zebulon Weston,	<i>Harrison, Me.</i>	
<i>U</i> Andrew A. Wheeler,	<i>Mannsville,</i>	21 Church-st.
<i>C</i> Alanson Wheeler,	<i>Nile.</i>	
<i>S</i> Thomas C. Whiteside,	<i>Wabash, Ind.,</i>	28 Lafayette-st.
† <i>U</i> Romeyn Whiteside,	<i>Davenport.</i>	
<i>C</i> Oscar F. Whitford,	<i>Northumberland.</i>	
<i>C</i> Alonzo C. Whitridge,	<i>Charleston, S. C.,</i>	106 Liberty-st.
† <i>C</i> Warren Wilkinson,	<i>Omro, Wis.</i>	
<i>U</i> Henry G. Wismer,	<i>St. Thomas, Canada West.</i>	
<i>nC</i> Edgar M. Wood,	<i>Cheshire, Mass.</i>	
<i>nC</i> Don H. Woodward,	<i>Springfield, Vt.</i>	

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> George W. Adams,	<i>Fairfield,</i>	3 Romeyn-st.
† <i>U</i> Samuel J. Alves,	<i>Henderson, Ky.</i>	
<i>nC</i> Samuel S. Bailey,	<i>West Point,</i>	136 Union-st.
<i>C</i> Charles E. Baldwin,	<i>Albany,</i>	29 Barrett-st.
<i>S</i> John Baldwin,	<i>Albany,</i>	29 Barrett-st.
<i>C</i> Robert C. Barnum,	<i>St. Louis, Mo.,</i>	Swart's, Union-st.
<i>nC</i> Timothy B. Barrett,	<i>Canaan, Me.</i>	
<i>nC</i> Edward O. Bartlett,	<i>Poughkeepsie.</i>	
† <i>U</i> Daniel Beach,	<i>Tyrone.</i>	
<i>C</i> Charles Beattie,	<i>Cornwall,</i>	Mrs. Brown's.
<i>U</i> Adoniram J. Blakely,	<i>Pawlet, Vt.,</i>	36 Lafayette-st.
<i>S</i> Sheldon E. Blakely,	<i>Pawlet, Vt.,</i>	36 Lafayette-st.
<i>S</i> James B. Bouck,	<i>Schenectady,</i>	Washington-av.
† <i>C</i> Harry Brodhead,	<i>Blacklake.</i>	
<i>C</i> George W. Brooks,	<i>Cooperstown,</i>	106 Liberty-st.
<i>C</i> Abram G. Brower,	<i>Schenectady,</i>	Bridge-st.
<i>xC</i> John P. Buckley,	<i>Freeport,</i>	2 N
<i>S</i> Stephen H. Bushnell,	<i>Monticello,</i>	110 Liberty-st.
† <i>U</i> William Le Grand Card,	<i>LaCrosse, Wis.</i>	
<i>C</i> John M. Carmichael,	<i>Johnstown,</i>	3 Romeyn-st.
<i>S</i> John H. Carter,	<i>New-Milford, Vt.,</i>	110 Liberty-st.
<i>C</i> Lucian E. Carter,	<i>Evans' Mills,</i>	92 Liberty-st.
<i>U</i> Jerone B. Chapman,	<i>Warrensburgh.</i>	
<i>C</i> Edward Chase,	<i>Portland, Me.,</i>	53 Barrett-st.

JUNIOR CLASS.

	NAMES.	RESIDENCES.	ROOMS.
<i>S</i>	Gaylord J. Clark,	<i>East Candor,</i>	106 Liberty-st.
† <i>C</i>	Francis Collins,	<i>Fowlersville.</i>	
<i>C</i>	Gansvoort D. Consaul,	<i>Schenectady,</i>	54 Barrett-st.
<i>C</i>	J. Darwin S. Cook,	<i>Ledgedale, Penn.,</i>	14 S
† <i>U</i>	Charles E. Cowdrey,	<i>Ithaca.</i>	
<i>C</i>	George W. DeCosta,	<i>Charlestown, Mass.,</i>	N H
<i>C</i>	Henry Ditmas,	<i>Flatbush,</i>	21 Church-st.
<i>C</i>	James Dobbin,	<i>Salem,</i>	47 N
† <i>U</i>	Charles Duff,	<i>Walpole, Canada West.</i>	
<i>U</i>	Nathaniel M. Edwards,	<i>Haverhill, Mass.,</i>	18 South-av.
<i>C</i>	Eugene Elmendorf,	<i>Palmyra,</i>	19 Front-st.
<i>C</i>	Charles S. Farnham,	<i>Buffalo,</i>	10 S
† <i>U</i>	David S. Farnham,	<i>West Lebanon, Me.</i>	
<i>C</i>	Nathan C. Giffin,	<i>Heuvelton,</i>	23 N
<i>C</i>	Alexander Gilchrist, Jun.,	<i>West Charlton,</i>	47 S
<i>C</i>	John Gilpin, Jun.,	<i>Kittanning, Penn.,</i>	30 N
<i>C</i>	Philip K. Gleed,	<i>Watervliet, Vt.,</i>	8 N
<i>C</i>	David Gordon,	<i>Johnstown,</i>	3 Romeyn-st.
<i>nC</i>	Russell L. Grant,	<i>Rosendale.</i>	
<i>C</i>	William Green,	<i>Kingsboro,</i>	48 S
<i>S</i>	Washington Groesbeck,	<i>Bethlehem.</i>	
<i>C</i>	Charles J. Hamlin,	<i>Aurora,</i>	29 N
† <i>C</i>	George C. Harrington,	<i>Joliet, Ill.</i>	
<i>C</i>	David Heagle,	<i>Rockford, Ill.,</i>	45 S
† <i>U</i>	Thophilus Heilig,	<i>Tamaqua, Penn.</i>	
<i>C</i>	David Herron, Jun.,	<i>Troy,</i>	178 Union-st.
<i>S</i>	James M. Hodge,	<i>Le Raysville, Penn.,</i>	48 N
<i>C</i>	James K. Hull,	<i>Centre Berlin,</i>	16 N

JUNIOR CLASS.

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	NAMES.	RESIDENCES.	ROOMS.
S	George P. Isham,	<i>Dunkirk,</i>	32 S
C	Daniel B. Jackson,	<i>Hamptonsburgh,</i>	43 N
U	Hiram C. Johns,	<i>Troy, Penn.</i>	
U	Frank L. Johnson,	<i>Chicago, Ill.,</i>	18 South-av.
†C	Myron A. Johnson,	<i>Hadley, Mass.</i>	
C	William C. Jones,	<i>Doe Run, Penn.,</i>	30 N
C	Alexis A. Julien,	<i>New-York,</i>	92 Liberty-st.
†U	Frederick M. H. Kendrick,	<i>Albany.</i>	
S	Timothy Lightbown,	<i>Sauquoit.</i>	
C	Horatio C. Lillie,	<i>Butternuts,</i>	9 S
C	Frank W. Little,	<i>Cherry Valley,</i>	41 N
†U	Frederick H. Lovejoy,	<i>Owego.</i>	
†C	Archibald S. McClure,	<i>Elmira.</i>	
S	John C. McCready,	<i>New-Wilmington, Penn., Ost'der's.</i>	
†C	John M. McKenzie,	<i>Schenectady.</i>	
C	David N. Marvin,	<i>Jamestown,</i>	42 N
C	William L. Mead,	<i>West Charlton,</i>	47 S
†S	William T. Meredith,	<i>Perth Amboy.</i>	
*	Adam W. Miller,	<i>Gouverneur.</i>	
C	George D. B. Miller,	<i>Holley,</i>	30 S
C	Augustus W. Nicoll,	<i>Bloomington,</i>	Lafayette-st.
†C	James M. Oliver,	<i>Penn Yan.</i>	
S	Jacob M. Ottman,	<i>Clay,</i>	18 S
†C	Pascal H. Owen,	<i>Montgomery, Ala.</i>	
C	Albert Parsons,	<i>Sharon Springs,</i>	7 N
C	Charles H. Peck,	<i>Sandlake,</i>	39 S

	NAMES.	RESIDENCES.	ROOMS.
†C	Hubert F. Peebles,	<i>Oriskany Falls.</i>	
†S	Emerson W. Perry,	<i>Shoreham, Vt.</i>	
†C	Van Ness A. Pierce,	<i>Hamilton.</i>	
C	Stephen B. Pound,	<i>Ontario,</i>	26 Ostrander's.
C	Wilson M. Powell,	<i>Chatham,</i>	29 N
nC	William N. Randels,	<i>West Hebron.</i>	
C	John D. Reynolds,	<i>Hillsdale,</i>	31 N
C	Benjamin F. Rexford, Jun.,	<i>Norwich,</i>	31 S
S	John Roberts,	<i>Harrisonville, Penn.,</i>	23 S
C	James H. Robinson,	<i>Argyle,</i>	5 N
†U	Joseph H. Rood,	<i>Johnstown.</i>	
C	Thomas Rose,	<i>Stephentown,</i>	9 S
C	Teunis Schenck,	<i>Flatbush,</i>	24 N
C	John M. Scribner, Jun.,	<i>Middleburg,</i>	42 S
S	Charles Sears,	<i>Mechanisville,</i>	39 S
C	Thomas O. Seaver,	<i>Woodstock, Vt.,</i>	24 N
†C	Samuel S. Seward,	<i>Florida.</i>	
nC	William F. Smalley,	<i>Christiana, Del.</i>	
†U	Henry E. W. Smeltzer,	<i>Middletown, Md.</i>	
—S	Edward W. Smith,	<i>Schenectady,</i>	18 Washington-av.
C	George T. Smith,	<i>Poundridge,</i>	7 S
†S	Ira S. Smith,	<i>Woodhull.</i>	
C	Norman L. Snow,	<i>Root,</i>	38 N
†C	Wesley Squire,	<i>Wales, Mass.</i>	
C	Richard C. Steele,	<i>Auburn,</i>	45 N
U	Elnathan Sweet,	<i>Stephentown,</i>	23 S

JUNIOR CLASS.

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NAMES.	RESIDENCES.	ROOMS.
†U Allen Taylor,	<i>Bangor.</i>	
U William D. Taylor,	<i>Branchport,</i>	39 N
†S Darius M. Thompson,	<i>Deposit.</i>	
C S. Montgomery Thorp,	<i>Granger,</i>	28 S
†C James M. Thresher,	<i>Stafford, Conn.</i>	
—C Edgar I. Truax,	<i>Schenectady,</i>	90 Ferry-st.
†C Henry Tupper,	<i>Monson, Mass.</i>	
C Charles I. Vail,	<i>Ryleyville, Penn.,</i>	7 S
U Peter J. Van Vranken,	<i>Niskayuna.</i>	
C Henry L. Warner,	<i>Harvard, Mass.,</i>	8 N
†C Nicholas Warner,	<i>Schenectady.</i>	
†U Eliakim S. Weld,	<i>Willett.</i>	
C John E. Werth,	<i>St. Louis, Mo.,</i>	48 N
S William B. Westlake,	<i>Newburgh,</i>	47 N
C George M. Wiley,	<i>Putnam,</i>	3 Romeyn-st.
U Thomas G. Wood,	<i>Albany,</i>	Prof. Newman's.
†S Adam C. Works,	<i>Ausable Forks.</i>	

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> Horatio C. Abbott,	<i>Webster,</i>	37 N Colon.
<i>C</i> Pitson J. Abbott,	<i>Windsor,</i>	2 N
<i>nC</i> Elbridge G. Adams,	<i>Stow's Square.</i>	
<i>S</i> William H. Angle,	<i>Yates,</i>	10 N
<i>xU</i> James Archbald, Jun.,	<i>Scranton, Penn.,</i>	18 N
<i>xU</i> Thomas Archer,	<i>Broad Brook, Conn.,</i>	35 S
<i>C</i> Lloyd Baldwin,	<i>New-Sharon, Me.,</i>	27 N
† <i>C</i> Cornelius W. Battell,	<i>Quincy, Ill.</i>	
<i>C</i> Edwin R. Beach,	<i>Liberty.</i>	
† <i>C</i> John H. Becker,	<i>Saratoga.</i>	
<i>S</i> Joseph Bell,	<i>Nashville, Tenn.,</i>	9 N
<i>C</i> Samuel T. Benedict,	<i>New-York,</i>	180 Union-st.
<i>C</i> John Beveridge,	<i>Hamptonburgh,</i>	6 N
<i>C</i> John P. Birch,	<i>Amsterdam,</i>	Lafayette-st.
† <i>C</i> Abraham Bockee,	<i>Poughkeepsie.</i>	
<i>C</i> Samuel A. Bowen,	<i>Middlefield Centre,</i>	9 N
<i>S</i> Joseph C. Bright,	<i>Pottsville, Penn.,</i>	21 Ostrander's.
<i>U</i> George W. Brown,	<i>Schenectady, Lib. and Lafay.-sts.</i>	
<i>S</i> James E. Brown,	<i>Florida,</i>	28 N
<i>xC</i> Douglas Campbell,	<i>Cherry Valley,</i>	44 N
<i>S</i> John Cantine,	<i>Stone Ridge,</i>	15 Ostrander's.
<i>S</i> George W. Chandler,	<i>Nunda,</i>	1 Ostrander's.
<i>C</i> Charles A. Conant,	<i>Temple, Me.,</i>	2 S Colon.
<i>xU</i> George T. Cook,	<i>Ledgedale, Penn.,</i>	14 S

SOPHOMORE CLASS.

39

NAMES.	RESIDENCES.	ROOMS.
†U Stewart Crichton,	<i>Prescott, Canada West.</i>	
C David R. Eddy,	<i>Lewiston,</i>	45 S
C Joseph E. Ewell,	<i>Alden,</i>	41 S
C A. Campbell Fowler,	<i>West Medford, Mass.,</i>	136 Union-st.
S William F. Fox,	<i>Schenectady,</i>	76 Ferry-st.
xU William L. Gibbs,	<i>Bunker Hill, Ill.,</i>	18 S
C Neil Gilmour,	<i>Glasgow, Scotland,</i>	2 S
U A. Will Gleason,	<i>Cattaraugus Reservation,</i>	44 S
C Samuel W. Hall, Jun.,	<i>West Manchester, Penn.,</i>	22 N
xU James M. Hamilton,	<i>Carbondale, Penn.,</i>	18 N
†C Josiah M. Haynes,	<i>Waterville, Me.</i>	
C Alpheus Heath,	<i>East Penfield,</i>	18 South-av.
†U Antonio Hekking,	<i>New-York.</i>	
C John S. Henry,	<i>Springfield, Tenn.,</i>	12 N
xS Moses R. Higgins,	<i>Caroline,</i>	119 Union-st
†U Peter E. Houck,	<i>Port Jackson.</i>	
U George W. Hoxie,	<i>Macedon Centre.</i>	
S Edward M. Hulett,	<i>Horseheads,</i>	21 S
C John B. Hutcheson,	<i>Springfield, Tenn.,</i>	12 N
C George T. Ingham,	<i>Salem, N. J.,</i>	25 N
S Marshall S. Keyes,	<i>Walpole, N. H.,</i>	13 N
U George T. Lape,	<i>Summit,</i>	6 S
nC Charles W. Leffingwell,	<i>Barrington, Ill.</i>	
S Spencer F. Lincoln,	<i>South Bristol,</i>	4 S
C George N. Little,	<i>Cherry Valley,</i>	18 Ostrander's.
C Benjamin F. Loomis,	<i>Binghamton,</i>	37 N
S J. Alexander Lyon,	<i>Schenectady,</i>	117 Union-st.
S Frank A. Lyons,	<i>Lanesborough, Penn.,</i>	Union-st.

SOPHOMORE CLASS.

	NAMES.	RESIDENCES.	ROOMS.
U	David McAllister,	<i>Bethel,</i>	24 S
†C	William H. McElroy,	<i>Albany,</i>	5 Ostrander's.
†U	Wesley McGilton,	<i>Ogalle, Wis.</i>	
C	George L. McKeehan,	<i>Green, O.,</i>	24 Ostrander's.
C	William C. Macy,	<i>Hudson.</i>	
xS	Samuel Mansfield,	<i>New-Baltimore,</i>	26 S
xS	Hamilton A. Matteson,	<i>South Berlin,</i>	26 S
C	William M. Milby,	<i>Indianola, Texas,</i>	38 S
C	Warner Miller,	<i>Northville,</i>	16 N
xU	Alfred Milmine,	<i>Florida,</i>	3 Romeyn-st.
C	Gideon P. Nichols,	<i>Windsor, Mass.,</i>	44 S
C	Charles E. Patterson,	<i>Schenectady,</i>	82 Liberty-st.
C	J. Franklin Patterson,	<i>Schenectady,</i>	82 Liberty-st.
C	Walter M. Patterson,	<i>Salisbury, Conn.,</i>	38 S
S	Owen Phillips,	<i>Exeter,</i>	4 S Colon.
U	Charles I. Pleasants,	<i>Sunbury, Penn.,</i>	16 S
U	Eliphalet N. Potter,	<i>Philadelphia, Penn.,</i>	Dr. Nott's.
xU	Thomas W. Rae,	<i>Champlain,</i>	16 Ostrander's.
C	Alexander Rankin,	<i>Henderson, Ky.,</i>	37 S
xC	Samuel T. Read,	<i>Attleboro', Mass.,</i>	Lafayette-st.
nC	Colton J. Reed.	<i>Glensdale.</i>	
xC	James A. Reid,	<i>South Argyle,</i>	46 S
C	Willie M. Rexford,	<i>Norwich,</i>	31 S
C	Francis F. Rice,	<i>Lowville,</i>	8 Ostrander's
xC	James C. Rogers.	<i>Sandy Hill,</i>	5 S
C	Everett R. Sawyer,	<i>Leyden,</i>	26 N
C	B. F. Sceva,	<i>Mechanicburgh, O.</i>	
S	E. Nott Schermerhorn,	<i>Schenectady,</i>	212 State-st.

SOPHOMORE CLASS.

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NAMES.	RESIDENCES.	ROOMS.
<i>nU</i> John Scott,	<i>Ontario,</i>	3 Romeyn-st.
† <i>C</i> George F. Seward,	<i>Florida.</i>	
<i>nS</i> Lybrand Sill,	<i>Hightstown. N. J.,</i>	12 S
* Oliver M. Simmons,	<i>Ira, Ill.</i>	
<i>C</i> J. Eugene Slingerland,	<i>Schenevas,</i>	161 Union-st.
<i>C</i> Henry L. Smith,	<i>Houseville,</i>	26 N
<i>U</i> John T. Smith,	<i>Yaphank,</i>	24 N
<i>C</i> George Snow,	<i>Oneonta.</i>	42 S
<i>xU</i> DeWitt C. Spencer,	<i>Americus, Ga.,</i>	21 S
<i>C</i> Charles E. Sprague,	<i>Schenectady,</i>	Union-st. cont'd.
<i>S</i> Conrad S. Stark,	<i>Old Forge, Penn.</i>	
<i>C</i> James M. Stevenson,	<i>Salem,</i>	37 S
<i>S</i> Charles M. Stuart,	<i>West Winfield.</i>	
<i>S</i> John D. Taylor,	<i>Providence, R. I.,</i>	3 Ostrander's.
<i>C</i> Edwin B. Tefft,	<i>Fort Miller,</i>	46 S
<i>C</i> Samuel R. Thayer,	<i>Hemlock Lake,</i>	28 S
<i>S</i> Samuel Thompson,	<i>Ballston,</i>	11 N
<i>C</i> George G. Thurston,	<i>Heuvelton,</i>	7 Ostrander's.
† <i>C</i> William C. Trull,	<i>Cherry Valley.</i>	
<i>S</i> Edgar B. Van Winkle,	<i>New-York,</i>	12 S
<i>U</i> John H. Voorhees,	<i>Minaville,</i>	6 S
<i>xC</i> John W. Wait,	<i>Sandy Hill,</i>	5 S
† <i>U</i> Nelson E. Whittaker,	<i>Principio, Md.</i>	
† <i>C</i> Theophilus B. Wood,	<i>Smithtown.</i>	

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> John M. Bailey,	<i>Albany,</i>	116 Union-st.
<i>C</i> John A. Barnes,	<i>Pittsburgh, Penn.,</i>	27 N
<i>C</i> Franklin Beard,	<i>Utica,</i>	2 S Colon.
<i>C</i> John V. D. Benedict,	<i>Warwick,</i>	28 N
— <i>C</i> Collins Blakely,	<i>Pawlett, Vt.,</i>	38 Barrett-st.
<i>C</i> E. Nott Bosworth,	<i>Baltimore, Md.,</i>	5 S Colon.
<i>C</i> E. Chester Bradley,	<i>Dunkirk,</i>	32 S
† <i>C</i> Lucius L. Bridges,	<i>Massena.</i>	
<i>C</i> John H. Clickner,	<i>Holley,</i>	43 S
— <i>U</i> Robert Dickey,	<i>New-London, Penn.,</i>	5 Ostrand's.
† <i>U</i> Peter Dinzey,	<i>St. Bartholomew, W. I.</i>	
† <i>C</i> George W. Fitch,	<i>Cambridge.</i>	
<i>C</i> Addison W. Gates,	<i>Ontario,</i>	26 Ostrander's.
— <i>C</i> John R. George,	<i>Alexandria, La.,</i>	N H
<i>C</i> Dan S. Giffin,	<i>Heuvelton.</i>	
<i>C</i> John L. Hill,	<i>Clifton Park,</i>	43 S
<i>C</i> Isaac J. Howell,	<i>York,</i>	20 S
<i>C</i> Ethan A. Ives,	<i>Norway,</i>	3 Romeyn-st.
<i>C</i> Edward Judson,	<i>Schenectady,</i>	39 State-st.
<i>U</i> Robert Kidd,	<i>Albany,</i>	Swart's, Union-st.
<i>C</i> Albert W. Lincoln,	<i>Albion, Me.,</i>	10 N
<i>C</i> John H. McLean,	<i>Port Byron,</i>	24 S

FRESHMAN CLASS.

43

NAMES.	RESIDENCES.	ROOMS.
<i>C</i> Henry M. Morey,	<i>Avon,</i>	20 S
<i>C</i> Thaddeus E. Munn,	<i>Leyden,</i>	28 Lafayette-st.
<i>C</i> John A. Osborn,	<i>Otisville,</i>	116 Union-st.
<i>C</i> Henry Parsons,	<i>Sharon Springs,</i>	7 N
‡ <i>C</i> Fletcher C. Peck,	<i>Nunda,</i>	1 Ostrander's.
<i>C</i> Cyrill H. Pinchott,	<i>Milford, Penn.,</i>	28 Barrett-st.
<i>C</i> David S. Pratt,	<i>Trumansburgh,</i>	Lafayette-st.
<i>C</i> Albert Rathbone,	<i>Albany,</i>	Swart's, Union-st.
— <i>C</i> James M. Redfield,	<i>Batavia.</i>	
<i>C</i> William W. Robertson,	<i>Jackson,</i>	15 N
<i>C</i> Jay E. Russell,	<i>Brandford, Conn.</i>	
<i>C</i> Peter Van Vranken,	<i>Niskayuna,</i>	17 S
<i>C</i> James P. Viele,	<i>Schuylerville,</i>	15 N
<i>C</i> Alexander Walker,	<i>North Gage,</i>	Lafayette-st.
<i>nU</i> Henry Wilcox, Jun.,	<i>Hadley.</i>	
<i>C</i> Timothy E. Wilcox,	<i>Litchfield,</i>	22 N
<i>C</i> Benjamin A. Willis,	<i>North Hempstead,</i>	15 S
<i>C</i> Daniel Yost,	<i>Johnstown,</i>	48 S
<i>C</i> Walter M. Young,	<i>Buffalo,</i>	42 N

STUDENTS OF CIVIL ENGINEERING.

[Registered in the preceding Classes.]

NAMES.	RESIDENCES.	ROOMS.
FIRST YEAR STUDENTS.		
William H. Angle,	<i>Yates,</i>	10 N
James Archbald, Jun.,	<i>Scranton, Penn.,</i>	18 N
Thomas Archer,	<i>Broad Brook, Conn.,</i>	35 S
John Cantine,	<i>Stone Ridge,</i>	15 Ostrander's.
George T. Lape,	<i>Summit,</i>	6 S
Frank A. Lyons,	<i>Lanesboro, Penn.,</i>	Miss Shurtliff's.
Owen Phillips,	<i>Exeter,</i>	4 S Colon.
Charles I. Pleasants,	<i>Sunbury, Penn.,</i>	16 S
Thomas W. Rae,	<i>Champlain,</i>	16 Ostrander's.
DeWitt C. Spencer,	<i>Americus, Ga.,</i>	21 S
E. B. Van Winkle,	<i>New-York,</i>	12 S

SECOND YEAR STUDENTS.

James B. Bouck,	<i>Schenectady,</i>	Washington-av.
N. M. Edwards,	<i>Haverhill, Mass.,</i>	18 South-av.
George P. Isham,	<i>Dunkirk,</i>	32 S
Charles D. Lawton,	<i>Auburn,</i>	33 N
Jacob M. Ottman,	<i>Clay,</i>	18 S
John Roberts,	<i>Harrisonville, Penn.,</i>	23 S
Elnathan Sweet,	<i>Stephentown</i>	23 S

STUDENTS OF CIVIL ENGINEERING.

45

NAMES.	RESIDENCES.	ROOMS.
GRADUATING CLASS.		
Alonzo C. Bigelow,	<i>Bloomfield, Me.</i>	
Thomas B. Brooks,	<i>Monroe,</i>	12 Lafayette-st.
Edmund S. Dewey,	<i>Ames,</i>	16 S
Mark D. Hanover,	<i>Wilbraham, Mass.</i>	
Alonzo S. Livermore,	<i>Sunbury, Penn.</i>	
Paul H. Mayor,	<i>Berkshire.</i>	
Lebbeus H. Mitchell,	<i>Parishville.</i>	
Charles J. Robinson,	<i>Holley,</i>	30 S
Zebulon Weston,	<i>Harrison, Me.</i>	

STUDENTS OF ANALYTICAL CHEMISTRY.

NAMES.	RESIDENCES.	TERMS.	ROOMS.
Henry Duane,	<i>Schenectady,</i>	1st, 2d.	Union-st.
Walton Duane,	<i>Schenectady,</i>	1st, 2d.	Union-st.
Thomas McAuley,	<i>Seneca,</i>	2d.	
Henry T. Martin,	<i>Albany,</i>	1st, 2d, 3d,	Union-st.
Edward I. North,	<i>Chicago,</i>	1st, 2d.	
David T. Potter,	<i>New-York,</i>	1st, 2d.	
Edward Townsend,	<i>Albany,</i>	2d.	
Samuel H. Wilkeson,	<i>Buffalo,</i>	1st, 2d, 3d,	Union-st.
Alfred A. C. Williams,	<i>Poughkeepsie,</i>	2d.	

NAMES.

RESIDENCES.

TERMS.

ROOMS.

[Registered in the preceding Classes.]

Samuel S. Bailey,	<i>West Point,</i>	3d,	136 Union-st.
Jesse Bradford,	<i>Amherst,</i>	Mas.,	2d.
T. B. Brooks,	<i>Monroe,</i>	1st, 2d.	12 Laf'te-st.
*Colin Campbell,	<i>Cherry Val.</i>	1st, 2d.	
George W. Colman,	<i>Schenectady,</i>	1st, 2d.	10 S
Leroy C. Cooley,	<i>Pt. Peninsular,</i>	2d.	15 Ost'der's.
John W. Davies,	<i>Po'keepsie,</i>	1st, 2d, 3d,	Union-st.
Charles S. Farnham,	<i>Buffalo,</i>	1st, 2d.	10 S
Archibald George,	<i>Mayfield,</i>	2d.	59 Jay-st.
John Laning,	<i>Wilkesbarre,</i>	Pa.	2d.
Paul Henri Mayor,	<i>Berkshire,</i>	2d.	
Lebbeus H. Mitchell,	<i>Parishville,</i>	1st.	
Lafayette F. Olney,	<i>Hecla Works,</i>	2d.	
John P. Shumway,	<i>Baldwinsville,</i>	2d.	
Josiah R. Sypher,	<i>Liverpool,</i>	Pa., 3d.	41 S
Thomas G. Wood,	<i>Albany,</i>	3d.	Prof. Newm's.

SUMMARY.

SENIORS,.....	145
JUNIORS,.....	121
SOPHOMORES, ...	104
FRESHMEN, ...	41
ANALYTICAL LABORATORY, ...	9
TOTAL, ...	420

PRIZE SCHOLARSHIPS.

The Prize Scholarships endowed by Dr. NOTT, have been awarded to the following persons :

CLASS OF 1858.

GEORGE W. COLMAN,

Prepared under E. W. JOHNSON, A. M., Westfield.

CLASS OF 1859.

DAVID HEAGLE,

Prepared under C. A. AVERY, A. M., Seneca Falls.

CHARLES H. PECK,

Prepared under WM. H. SCRAM, A. M., Sand Lake.

J. DARWIN S. COOK,

Prepared under Rev. GEO. KERR, LL. D., Franklin.

CLASS OF 1860.

GIDEON P. NICHOLS,

Prepared under Rev. JAMES NICHOLS, Windsor, Mass.

CHARLES E. SPRAGUE.

CLASS OF 1861.

HENRY PARSONS,

Prepared at WILLISTON SEMINARY, Easthampton, Mass.

BLATCHFORD ORATORICAL MEDALS,

AWARDED AT COMMENCEMENT, 1857.

First.—L. CLARK SEELYE, *Bethel, Conn.*

Second.—HENRY R. RATHBONE, *Albany.*

TIME OF RINGING THE BELL.

FIRST TERM.	A. M.				P. M.			SECOND TERM.
	First Bell.	Prayer Recita. Bell.	Study Bell.	Recita. Bell.	Study Bell.	Prayer Bell.	Study Bell.	
Commencing First Monday.								Commencing First Monday.
First Week,	6 35	7 35	9	11	2 00	4 00	7	Twelfth Week,
Second Week,	6 35	7 35	9	11	1 55	3 55	7	Elev'th Week,
Third Week,	6 40	7 40	9	11	1 50	3 50	7	Tenth Week,
Fourth Week,	6 40	7 40	9	11	1 45	3 45	7	Ninth Week,
Fifth Week,	6 45	7 45	9	11	1 40	3 40	7	Eighth Week,
Sixth Week,	6 45	7 45	9	11	1 35	3 35	7	Seventh Week,
Seventh Week,	6 50	7 50	9	11	1 30	3 30	7	Sixth Week,
Eighth Week,	6 50	7 50	9	11	1 20	3 20	7	Fifth Week,
Ninth Week,	6 55	7 55	9	11	1 15	3 15	7	Fourth Week,
Tenth Week,	6 55	7 55	9	11	1 10	3 10	7	Third Week,
Elev'th Week,	7 00	8 00	9	11	1 05	3 05	7	Second Week,
Twelfth Week,	7 00	8 00	9	11	1 00	3 00	7	First Week,
THIRD TERM,	6 30	7 30	9	11	2 00	4 00	Early Candle Light.	Throughout the Year.

